

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:57:32 ON 03 JAN 2003

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:57:52 ON 03 JAN 2003
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s galactosyl(w)transferase# or galactosyltransferase#
FILE 'MEDLINE'

3734 GALACTOSYL
41988 TRANSFERASE#
286 GALACTOSYL(W) TRANSFERASE#
2734 GALACTOSYLTRANSFERASE#

L1 2869 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'SCISEARCH'

2315 GALACTOSYL
35113 TRANSFERASE#
228 GALACTOSYL(W) TRANSFERASE#
2176 GALACTOSYLTRANSFERASE#

L2 2352 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'LIFESCI'

734 GALACTOSYL
11826 TRANSFERASE#
72 GALACTOSYL(W) TRANSFERASE#
594 GALACTOSYLTRANSFERASE#

L3 646 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'BIOTECHDS'

248 GALACTOSYL
2160 TRANSFERASE#
23 GALACTOSYL(W) TRANSFERASE#
216 GALACTOSYLTRANSFERASE#

L4 230 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'BIOSIS'

4512 GALACTOSYL
67377 TRANSFERASE#
1199 GALACTOSYL(W) TRANSFERASE#
2502 GALACTOSYLTRANSFERASE#

L5 3274 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'EMBASE'

2232 GALACTOSYL
31816 TRANSFERASE#
267 GALACTOSYL(W) TRANSFERASE#
2119 GALACTOSYLTRANSFERASE#

L6 2227 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'HCAPLUS'

4850 GALACTOSYL
41973 TRANSFERASE#
453 GALACTOSYL(W) TRANSFERASE#
3209 GALACTOSYLTRANSFERASE#

L7 3475 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

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FILE 'NTIS'
    15 GALACTOSYL
    1000 TRANSFERASE#
    1 GALACTOSYL(W) TRANSFERASE#
    3 GALACTOSYLTRANSFERASE#
L8      4 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'ESBIOBASE'
    703 GALACTOSYL
    25719 TRANSFERASE#
    74 GALACTOSYL(W) TRANSFERASE#
    670 GALACTOSYLTRANSFERASE#
L9      728 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'BIOTECHNO'
    873 GALACTOSYL
    14960 TRANSFERASE#
    89 GALACTOSYL(W) TRANSFERASE#
    1056 GALACTOSYLTRANSFERASE#
L10     1087 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

FILE 'WPIDS'
    380 GALACTOSYL
    3802 TRANSFERASE#
    63 GALACTOSYL(W) TRANSFERASE#
    88 GALACTOSYLTRANSFERASE#
L11     136 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

TOTAL FOR ALL FILES
L12     17028 GALACTOSYL(W) TRANSFERASE# OR GALACTOSYLTRANSFERASE#

=> s 3(2w)112
FILE 'MEDLINE'
    2378206 3
L13     378 3(2W)L1

FILE 'SCISEARCH'
    2197852 3
L14     365 3(2W)L2

FILE 'LIFESCI'
    383959 3
L15     154 3(2W)L3

FILE 'BIOTECHDS'
    112092 3
L16     55 3(2W)L4

FILE 'BIOSIS'
    2153409 3
L17     439 3(2W)L5

FILE 'EMBASE'
    1446936 3
L18     299 3(2W)L6

FILE 'HCAPLUS'
    5642694 3
L19     481 3(2W)L7

FILE 'NTIS'
    287186 3
L20     0 3(2W)L8

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FILE 'ESBIOBASE'
      586891 3
L21      173 3 (2W) L9

FILE 'BIOTECHNO'
      444345 3
L22      212 3 (2W) L10

FILE 'WPIDS'
      3750902 3
L23      41 3 (2W) L11

TOTAL FOR ALL FILES
L24      2597 3 (2W) L12

=> s l24 and (gene/q or murine or mouse)
FILE 'MEDLINE'
      101664 MURINE
      233825 MOUSE
L25      271 L13 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'SCISEARCH'
      102902 MURINE
      248514 MOUSE
L26      228 L14 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'LIFESCI'
      45218 MURINE
      93667 MOUSE
L27      105 L15 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'BIOTECHDS'
      1957 MURINE
      21541 MOUSE
L28      50 L16 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'BIOSIS'
      133336 MURINE
      650930 MOUSE
L29      263 L17 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'EMBASE'
      91040 MURINE
      504587 MOUSE
L30      189 L18 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'HCAPLUS'
      90943 MURINE
      270938 MOUSE
L31      300 L19 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'NTIS'
      883 MURINE
      3843 MOUSE
L32      0 L20 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'ESBIOBASE'
      35222 MURINE
      79329 MOUSE
L33      107 L21 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'BIOTECHNO'
      52380 MURINE

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205716 MOUSE
L34 155 L22 AND (GENE/Q OR MURINE OR MOUSE)

FILE 'WPIDS'

2749 MURINE
17688 MOUSE
L35 35 L23 AND (GENE/Q OR MURINE OR MOUSE)

TOTAL FOR ALL FILES

L36 1703 L24 AND (GENE/Q OR MURINE OR MOUSE)

=> s l36 not 1991-1994/py

FILE 'MEDLINE'

1584904 1991-1994/PY
L37 228 L25 NOT 1991-1994/PY

FILE 'SCISEARCH'

2987691 1991-1994/PY
L38 189 L26 NOT 1991-1994/PY

FILE 'LIFESCI'

423804 1991-1994/PY
L39 94 L27 NOT 1991-1994/PY

FILE 'BIOTECHDS'

59525 1991-1994/PY
L40 45 L28 NOT 1991-1994/PY

FILE 'BIOSIS'

2139868 1991-1994/PY
L41 224 L29 NOT 1991-1994/PY

FILE 'EMBASE'

1427662 1991-1994/PY
L42 158 L30 NOT 1991-1994/PY

FILE 'HCAPLUS'

2526454 1991-1994/PY
L43 264 L31 NOT 1991-1994/PY

FILE 'NTIS'

206143 1991-1994/PY
L44 0 L32 NOT 1991-1994/PY

FILE 'ESBIOBASE'

190102 1991-1994/PY
L45 98 L33 NOT 1991-1994/PY

FILE 'BIOTECHNO'

312121 1991-1994/PY
L46 127 L34 NOT 1991-1994/PY

FILE 'WPIDS'

1965525 1991-1994/PY
L47 32 L35 NOT 1991-1994/PY

TOTAL FOR ALL FILES

L48 1459 L36 NOT 1991-1994/PY

=> s l48 not 1995-1998/py

FILE 'MEDLINE'

1713508 1995-1998/PY
L49 147 L37 NOT 1995-1998/PY

FILE 'SCISEARCH'
3644927 1995-1998/PY
L50 120 L38 NOT 1995-1998/PY

FILE 'LIFESCI'
448720 1995-1998/PY
L51 65 L39 NOT 1995-1998/PY

FILE 'BIOTECHDS'
57389 1995-1998/PY
L52 32 L40 NOT 1995-1998/PY

FILE 'BIOSIS'
2241685 1995-1998/PY
L53 151 L41 NOT 1995-1998/PY

FILE 'EMBASE'
1567809 1995-1998/PY
L54 106 L42 NOT 1995-1998/PY

FILE 'HCAPLUS'
3204985 1995-1998/PY
L55 192 L43 NOT 1995-1998/PY

FILE 'NTIS'
144226 1995-1998/PY
L56 0 L44 NOT 1995-1998/PY

FILE 'ESBIOBASE'
887160 1995-1998/PY
L57 62 L45 NOT 1995-1998/PY

FILE 'BIOTECHNO'
422735 1995-1998/PY
L58 88 L46 NOT 1995-1998/PY

FILE 'WPIDS'
2651222 1995-1998/PY
L59 29 L47 NOT 1995-1998/PY

TOTAL FOR ALL FILES
L60 992 L48 NOT 1995-1998/PY

=> s l60 not 1999-2003/py

FILE 'MEDLINE'
1934258 1999-2003/PY
L61 30 L49 NOT 1999-2003/PY

FILE 'SCISEARCH'
3803698 1999-2003/PY
L62 8 L50 NOT 1999-2003/PY

FILE 'LIFESCI'
390278 1999-2003/PY
L63 13 L51 NOT 1999-2003/PY

FILE 'BIOTECHDS'
61017 1999-2003/PY
L64 1 L52 NOT 1999-2003/PY

FILE 'BIOSIS'
2095023 1999-2003/PY
L65 29 L53 NOT 1999-2003/PY

FILE 'EMBASE'
1706406 1999-2003/PY
L66 26 L54 NOT 1999-2003/PY

FILE 'HCAPLUS'
3654033 1999-2003/PY
L67 26 L55 NOT 1999-2003/PY

FILE 'NTIS'
66678 1999-2003/PY
L68 0 L56 NOT 1999-2003/PY

FILE 'ESBIOBASE'
1110260 1999-2003/PY
L69 0 L57 NOT 1999-2003/PY

FILE 'BIOTECHNO'
464494 1999-2003/PY
L70 16 L58 NOT 1999-2003/PY

FILE 'WPIDS'
3220858 1999-2003/PY
L71 0 L59 NOT 1999-2003/PY

TOTAL FOR ALL FILES
L72 149 L60 NOT 1999-2003/PY

=> dup rem L72
PROCESSING COMPLETED FOR L72
L73 53 DUP REM L72 (96 DUPLICATES REMOVED)

=> d tot

L73 ANSWER 1 OF 53 MEDLINE
TI Regulation of the expression of Gal alpha 1-3Gal beta 1-4GlcNAc
glycosphingolipids in kidney.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Oct 15) 265 (29) 17621-6.
Journal code: 2985121R. ISSN: 0021-9258.
AU Hendricks S P; He P; Stults C L; Macher B A
AN 91009218 MEDLINE

L73 ANSWER 2 OF 53 MEDLINE
TI Identification of a region of UDP-galactose:N-acetylglucosamine beta
4-galactosyltransferase involved in UDP-galactose binding by differential
labeling.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Aug 25) 265 (24) 14163-9.
Journal code: 2985121R. ISSN: 0021-9258.
AU Yadav S; Brew K
AN 90354395 MEDLINE

L73 ANSWER 3 OF 53 MEDLINE
TI Control of mucin synthesis: the peptide portion of synthetic
O-glycopeptide substrates influences the activity of O-glycan core 1
UDPgalactose:N-acetyl-alpha-galactosaminyl-R beta 3-
galactosyltransferase.
SO BIOCHEMISTRY, (1990 Nov 6) 29 (44) 10206-12.
Journal code: 0370623. ISSN: 0006-2960.
AU Brockhausen I; Moller G; Merz G; Adermann K; Paulsen H
AN 91104938 MEDLINE

L73 ANSWER 4 OF 53 MEDLINE
TI Frameshift and nonsense mutations in a human genomic s quence
homologous to a murine UDP-Gal:beta-D-Gal(1,4)-D-GlcNAc alpha(1,
3)-galactosyltransferase cDNA.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Apr 25) 265 (12) 7055-61.
Journal code: 2985121R. ISSN: 0021-9258.

AU Larsen R D; Rivera-Marrero C A; Ernst L K; Cummings R D; Lowe J B
AN 90216745 MEDLINE

L73 ANSWER 5 OF 53 MEDLINE DUPLICATE 5
TI Transfer and expression of a **murine** UDP-Gal:beta-D-Gal-alpha 1,
3-galactosyltransferase gene in transfected
Chinese hamster ovary cells. Competition reactions between the alpha 1,
3-galactosyltransferase and the endogenous alpha
2,3-sialyltransferase.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Apr 15) 265 (11) 6225-34.
Journal code: 2985121R. ISSN: 0021-9258.

AU Smith D F; Larsen R D; Mattox S; Lowe J B; Cummings R D
AN 90202895 MEDLINE

L73 ANSWER 6 OF 53 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI TRANSFER AND EXPRESSION OF A **MURINE GENE** FOR ALPHA-1
3 GALACTOSYLTRANSFERASE IN CHINESE HAMSTER OVARY CELLS.

SO JOINT MEETING OF THE AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR
BIOLOGY, AND THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS, NEW ORLEANS,
LOUISIANA, USA, JUNE 4-7, 1990. FASEB (FED AM SOC EXP BIOL) J. (1990) 4
(7), A1979.
CODEN: FAJOEC. ISSN: 0892-6638.

AU SMITH D F; LARSEN R D; MATTOX S; LOWE J B; CUMMINGS R D
AN 1990:346150 BIOSIS

L73 ANSWER 7 OF 53 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI FRAMESHIFT AND NONSENSE MUTATIONS IN A HUMAN GENOMIC **SEQUENCE**
HOMOLOGOUS TO A **MURINE** UDP-GAL GAL-BETA-1 4-GLC-NAC-ALPHA-1
3-GALACTOSYLTRANSFERASE COMPLEMENTARY DNA.

SO JOINT MEETING OF THE AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR
BIOLOGY AND THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS, NEW ORLEANS,
LOUISIANA, USA, JUNE 4-7, 1990. FASEB (FED AM SOC EXP BIOL) J. (1990) 4
(7), A1821.
CODEN: FAJOEC. ISSN: 0892-6638.

AU RIVERA-MARRERO C A; LARSEN R D; ERNST L K; CUMMINGS R D; LOWE J B
AN 1990:324705 BIOSIS

L73 ANSWER 8 OF 53 MEDLINE
TI A genetic defect in the biosynthesis of dermatan sulfate proteoglycan:
galactosyltransferase I deficiency in fibroblasts from a patient with a
progeroid syndrome.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
AMERICA, (1990 Feb) 87 (4) 1342-6.
Journal code: 7505876. ISSN: 0027-8424.

AU Quentin E; Gladen A; Roden L; Kresse H
AN 90160324 MEDLINE

L73 ANSWER 9 OF 53 MEDLINE
TI pH-dependent changes of ganglioside biosynthesis in neuronal cell culture.

SO EUROPEAN JOURNAL OF CELL BIOLOGY, (1990 Aug) 52 (2) 236-40.
Journal code: 7906240. ISSN: 0171-9335.

AU Iber H; van Echten G; Klein R A; Sandhoff K
AN 91184192 MEDLINE

L73 ANSWER 10 OF 53 MEDLINE DUPLICATE 6
TI Alpha 1----**3-galactosyltransferase**: the use of
recombinant enzyme for the synthesis of alpha-galactosylated
glycoconjugates.

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1990 Jul 20) 191 (1) 75-83.
Journal code: 0107600. ISSN: 0014-2956.

AU Joziassse D H; Shaper N L; Salyer L S; Van den Eijnden D H; van der Spoel A
C; Shaper J H

AN 90336644 MEDLINE

L73 ANSWER 11 OF 53 HCAPLUS COPYRIGHT 2003 ACS
 TI Bovine alpha-1,3-**galactosyltransferase**: isolation and characterization of cDNA clone
 SO Chemtracts: Biochemistry and Molecular Biology (1990), 1(1), 22-3
 CODEN: CMBIE5; ISSN: 1045-2680
 AU Bischoff, Joyce; Lodish, Harvey F.
 AN 1990:418459 HCAPLUS
 DN 113:18459

L73 ANSWER 12 OF 53 MEDLINE DUPLICATE 7
 TI Bovine alpha 1----3-**galactosyltransferase**: isolation and characterization of a cDNA clone. Identification of homologous **sequences** in human genomic DNA.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1989 Aug 25) 264 (24) 14290-7.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Joziassse D H; Shaper J H; Van den Eijnden D H; Van Tunen A J; Shaper N L
 AN 89340543 MEDLINE

L73 ANSWER 13 OF 53 MEDLINE DUPLICATE 8
 TI Isolation of a cDNA encoding a **murine** UDPgalactose:beta-D-galactosyl- 1,4-N-acetyl-D-glucosaminide alpha-1,3-**galactosyltransferase**: expression cloning by **gene** transfer.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1989 Nov) 86 (21) 8227-31.
 Journal code: 7505876. ISSN: 0027-8424.
 AU Larsen R D; Rajan V P; Ruff M M; Kukowska-Latallo J; Cummings R D; Lowe J B
 AN 90046769 MEDLINE

L73 ANSWER 14 OF 53 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 9
 TI Biosynthesis of bi-, tri-, and tetraantennary oligosaccharides containing .alpha.-D-galactosyl residues at their nonreducing termini. Branch specificity of the Ehrlich tumor cell .alpha.(1,3)-**galactosyltransferase**.
 SO Journal of Biological Chemistry, (1989) 264/3 (1375-1380).
 ISSN: 0021-9258 CODEN: JBCHA3
 AU Elices M.J.; Goldstein I.J.
 AN 89050973 EMBASE

L73 ANSWER 15 OF 53 LIFESCI COPYRIGHT 2003 CSA
 TI In vitro and in vivo growth control of transformed lymphoid cells expressing plasma membrane galactosyltransferase.
 SO ONCOGENE., (1989) vol. 4, no. 11, pp. 1337-1344.
 AU Ghanta, V.K.; Hiramoto, R.N.; Parker, C.A.; Kidd, V.J.; Humphreys-Beher, M.G.
 AN 89:50372 LIFESCI

L73 ANSWER 16 OF 53 LIFESCI COPYRIGHT 2003 CSA
 TI Swelling of the Golgi apparatus and decrease of galactosyltransferase in polyamine-deficient bovine lymphocytes and epithelium of **mouse** small intestine.
 SO BIOCHEM. PHARMACOL., (1989) vol. 38, no. 7, pp. 1083-1089.
 AU Sakamaki, Y.; Terao, K.; Ito, E.; Kashiwagi, K.; Igarashi, K.
 AN 89:21963 LIFESCI

L73 ANSWER 17 OF 53 MEDLINE DUPLICATE 10
 TI Abnormal expression of alpha-galactosyl epitopes in man. A trigger for autoimmune processes?.
 SO LANCET, (1989 Aug 12) 2 (8659) 358-61. Ref: 31
 Journal code: 2985213R. ISSN: 0140-6736.
 AU Galili U

AN 89343349 MEDLINE

L73 ANSWER 18 OF 53 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 11
 TI Evidence for an O-glycan sialylation system in brain. Characterization of
 a .beta.-galactoside .alpha.2,3-sialyltransferase from rat brain
 regulating the expression of an .alpha.-N-acetylgalactosaminide
 .alpha.2,6-sialyltransferase activity.
 SO European Journal of Biochemistry, (1989) 182/2 (257-265).
 ISSN: 0014-2956 CODEN: EJBCAI
 AU Baubichon-Cortay H.; Broquet P.; George P.; Louisot P.
 AN 89165453 EMBASE

L73 ANSWER 19 OF 53 MEDLINE
 TI Preparative in vitro generation of lacto-series type 1 chain glycolipids
 catalyzed by beta 1----3-galactosyltransferase from
 human colonic adenocarcinoma Colo 205 cells.
 SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1989 Oct) 274 (1) 14-25.
 Journal code: 0372430. ISSN: 0003-9861.
 AU Holmes E H; Levery S B
 AN 89372927 MEDLINE

L73 ANSWER 20 OF 53 MEDLINE DUPLICATE 12
 TI Retinoic acid-induced differentiation of the mouse
 teratocarcinoma cell line F9 is accompanied by an increase in the activity
 of UDP-galactose: beta-D-galactosyl-alpha 1,3-
 galactosyltransferase.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1988 Jan 5) 263 (1) 511-9.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Cummings R D; Mattox S A
 AN 88087139 MEDLINE

L73 ANSWER 21 OF 53 MEDLINE DUPLICATE 13
 TI Heparin inhibits specific glycosyltransferase activities in interleukin 2
 activated murine T cells.
 SO BIOSCIENCE REPORTS, (1988 Aug) 8 (4) 389-99.
 Journal code: 8102797. ISSN: 0144-8463.
 AU Schwarting G A; Gajewski A
 AN 89051164 MEDLINE

L73 ANSWER 22 OF 53 MEDLINE
 TI On the clinical usefulness of a few sugar antigens and a
 galactosyl-transferase.
 SO HUMAN CELL, (1988 Mar) 1 (1) 37-45.
 Journal code: 8912329. ISSN: 0914-7470.
 AU Nozawa S; Izumi S; Sakayori M; Narisawa S; Kojima K; Iizuka R; Iwamori M;
 Nagai Y
 AN 91104579 MEDLINE

L73 ANSWER 23 OF 53 MEDLINE DUPLICATE 14
 TI Modulation of two distinct galactosyltransferase activities in populations
 of mouse peritoneal macrophages.
 SO JOURNAL OF IMMUNOLOGY, (1987 Dec 1) 139 (11) 3748-52.
 Journal code: 2985117R. ISSN: 0022-1767.
 AU Sheares B T; Mercurio A M
 AN 88060480 MEDLINE

L73 ANSWER 24 OF 53 LIFESCI COPYRIGHT 2003 CSA
 TI Spatial and temporal expression of cell surface galactosyltransferase
 during mouse spermatogenesis and epididymal maturation.
 SO DEV. BIOL., (1987) vol. 124, no. 1, pp. 111-124.
 AU Scully, N.F.; Shaper, J.H.; Shur, B.D.
 AN 87:80591 LIFESCI

L73 ANSWER 25 OF 53 MEDLINE DUPLICATE 15

TI Purification and characterization of a UDP-Gal:beta-D-Gal(1,4)-D-GlcNAc
 alpha(1,3)-**galactosyltransferase** from Ehrlich ascites
 tumor cells.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1986 May 5) 261 (13) 6064-72.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Elices M J; Blake D A; Goldstein I J
 AN 86196011 MEDLINE

L73 ANSWER 26 OF 53 MEDLINE DUPLICATE 16
 TI UDP-N-acetyl-D-galactosamine as a donor substrate for the
 glycosyltransferase encoded by the B **gene** at the human blood
 group ABO locus.
 SO CARBOHYDRATE RESEARCH, (1986 Jun 1) 149 (1) 149-70.
 Journal code: 0043535. ISSN: 0008-6215.
 AU Greenwell P; Yates A D; Watkins W M
 AN 86271888 MEDLINE

L73 ANSWER 27 OF 53 LIFESCI COPYRIGHT 2003 CSA
 TI Cell surface galactosyltransferase as a recognition molecule during
 development.
 SO MOL. CELL. BIOCHEM., (1986) vol. 72, no. 1-2, pp. 141-151.
 AU Bayna, E.M.; Runyan, R.B.; Scully, N.F.; Reichner, J.; Lopez, L.C.; Shur,
 B.D.
 AN 86:73464 LIFESCI

L73 ANSWER 28 OF 53 MEDLINE DUPLICATE 17
 TI Biosynthesis of terminal Gal alpha 1----3Gal beta 1----4GlcNAc-R
 oligosaccharide **sequences** on glycoconjugates. Purification and
 acceptor specificity of a UDP-Gal:N-acetyllactosaminide alpha 1----
 3-**galactosyltransferase** from calf thymus.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1985 Oct 25) 260 (24) 12927-34.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Blanken W M; Van den Eijnden D H
 AN 86033718 MEDLINE

L73 ANSWER 29 OF 53 SCISEARCH COPYRIGHT 2003 ISI (R)
 TI BIOSYNTHESIS OF TERMINAL "GAL-ALPHA-1-]3GAL-BETA-1-]4GLCNAC-R
 OLIGOSACCHARIDE **SEQUENCES** ON GLYCOCONJUGATES - PURIFICATION AND
 ACCEPTOR SPECIFICITY OF A UDP-GAL-N-ACETYLLACTOSAMINIDE ALPHA-]3
 -**GALACTOSYLTRANSFERASE** FROM CALF THYMUS
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1985) Vol. 260, No. 24, pp. 2927-2934.
 AU BLANKEN W M (Reprint); VANDENEIJNDEN D H
 AN 85:591565 SCISEARCH

L73 ANSWER 30 OF 53 MEDLINE
 TI Cloning of rfaG, B, I, and J **genes** for glycosyltransferase
 enzymes for synthesis of the lipopolysaccharide core of Salmonella
 typhimurium.
 SO JOURNAL OF BACTERIOLOGY, (1985 Jan) 161 (1) 277-84.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Kadam S K; Rehemtulla A; Sanderson K E
 AN 85104719 MEDLINE

L73 ANSWER 31 OF 53 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 18
 TI Enzymatic and organizational difference in expression of a Burkitt
 lymphoma-associated antigen (globotriaosylceramide) in Burkitt lymphoma
 and lymphoblastoid cell lines.
 SO Journal of Biological Chemistry, (1984) 259/23 (14783-14787).
 CODEN: JBCHA3
 AU Wiels J.; Holmes E.H.; Cochran N.; et al.
 AN 85022208 EMBASE

L73 ANSWER 32 OF 53 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
 TI UDP-galnac:polypeptide N-acetylgalactosaminyltransferase (galnac T) and

UDP-GAL:N-acetylgalactosamine.beta.1-3,
galactosyltransferase (gal T) are localized in separate
 compartments in **mouse** lymphoma BW5147.3 cells.
 SO Federation Proceedings, (1984) 43/6 (no. 1345).
 CODEN: FEPRA7
 AU Elhammer A.; Kornfeld S.
 AN 84203397 EMBASE

L73 ANSWER 33 OF 53 MEDLINE DUPLICATE 19
 TI Two enzymes involved in the synthesis of O-linked oligosaccharides are
 localized on membranes of different densities in **mouse** lymphoma
 BW5147 cells.
 SO JOURNAL OF CELL BIOLOGY, (1984 Jul) 99 (1 Pt 1) 327-31.
 Journal code: 0375356. ISSN: 0021-9525.
 AU Elhammer A; Kornfeld S
 AN 84239997 MEDLINE

L73 ANSWER 34 OF 53 MEDLINE DUPLICATE 20
 TI Characterisation of a blood-group A-active tetrasaccharide synthesised by
 a blood-group B **gene**-specified glycosyltransferase.
 SO CARBOHYDRATE RESEARCH, (1984 Jul 15) 130 251-60.
 Journal code: 0043535. ISSN: 0008-6215.
 AU Yates A D; Feeney J; Donald A S; Watkins W M
 AN 85001908 MEDLINE

L73 ANSWER 35 OF 53 HCAPLUS COPYRIGHT 2003 ACS
 TI Biosynthesis in vitro of gangliosides containing Gg- and Lc-cores
 SO Advances in Experimental Medicine and Biology (1984), 174 (Ganglioside
 Struct., Funct., Biomed. Potential), 249-61
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L73 ANSWER 36 OF 53 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
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L73 ANSWER 38 OF 53 LIFESCI COPYRIGHT 2003 CSA
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L73 ANSWER 50 OF 53 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
28
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L73 ANSWER 52 OF 53 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
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=> save temp l73 galt/a
ANSWER SET L73 HAS BEEN SAVED AS 'GALT/A'

=> d ab 11,12,15,19,28

L73 ANSWER 11 OF 53 HCAPLUS COPYRIGHT 2003 ACS

AB The title research of D. H. Joziassse, et al. (1989) is reviewed with commentary and 2 refs.

L73 ANSWER 12 OF 53 MEDLINE

DUPLICATE 7

AB We have isolated, by immunological screening of a lambda gt11 expression library, a cDNA clone that represents the complete coding **sequence** for bovine alpha 1----3-galactosyltransferase. The coding **sequence** predicts a membrane-bound protein with three distinct structural features: a large, potentially glycosylated COOH-terminal domain (346 amino acids), a single transmembrane domain (16 amino acids), and a short NH2-terminal domain (6 amino acids). Thus, the domain structure for this transferase is similar to that deduced for beta 1----4-galactosyltransferase (Shaper, N. L., Hollis, G. F., Douglas, J. G., Kirsch, I. R., and Shaper, J. H. (1988) J. Biol. Chem. 263, 10420-10428) and alpha 2----6-sialyltransferase (Weinstein, J., Lee, E. V., McEntee, K., Lai, P.-H., and Paulson, J. C. (1987) J. Biol. Chem. 262, 17735-17743). S1 analysis demonstrates that two sets of mRNAs, which are heterogeneous at their 5' ends, are transcribed. Because both sets initiate upstream of the translational start site, only one protein is encoded by this **gene**. alpha 1----3-Galactosyltransferase is widely expressed in different mammalian species, with the notable exception of man and Old World monkeys (Galili, U., Shohet, S. B., Kobrin, E., Stults, C.L.M., and Macher, B. A. (1988) J. Biol. Chem. 263, 17755-17762). By Northern blot analysis we were indeed unable to detect transcripts for this enzyme in various human and Old World monkey cell lines; transcripts were readily detected in other mammalian species. However, by Southern blot analysis, homologous **sequences** for alpha 1----3-galactosyltransferase were identified in human genomic DNA. This suggests that the **gene**, although present in the human genome, is normally not expressed. These observations have potential medical implications. Because many humans have high levels of circulating antibodies directed against the enzymatic product of alpha 1----3-galactosyltransferase (Gal alpha 1----3Gal beta 1----4GlcN Ac) (Galili, U., Clark, M. R., Shohet, S. B., Buehler, J., and Macher, B. A. (1987) Proc. Natl. Acad. Sci. U. S. A. 84, 1369-1373), it has been suggested that activation of this normally silent **gene** may play a role in autoimmune disease in man (Etienne-Decerf, J., Malaise, M., Mahieu, P., and Winand, R. (1987) Acta Endocrinol. 115, 67-74).

L73 ANSWER 15 OF 53 LIFESCI COPYRIGHT 2003 CSA

AB The level of beta 1-4 galactosyltransferase activity was examined in a number of spontaneously, chemically, or virally transformed **murine** tumor cell lines. Increased levels of enzyme activity were observed for the **murine** myeloma cell line K181 and in vivo MOPC 104E. The Moloney Sarcoma Virus (MSV) transformed T-cell lymphoma, YC-8, also demonstrated elevated levels of enzyme activity when compared to a second independently MSV transformed T stem-cell lymphoma, LSTRA. Cell surface immunofluorescence was also detected in YC-8 with a monoclonal antibody for galactosyltransferase.

L73 ANSWER 19 OF 53 MEDLINE

AB Lacto-series glycolipids, comprising two isomeric types distinguished as type 1 or 2 based upon the linkage of the terminal galactose of the chains, form the basis for a diversity of cell surface antigens expressed on cells. Experimentally, type 2 chain precursors are generally more abundant in tissues for extractive purposes to yield rather large quantities of material compared to the type 1 chain structures. Conditions have been defined for in vitro conversion of terminal Gal beta 1----4GlcNAc linkages of type 2 chain precursors to yield type 1

lacto-series chain based terminal Gal beta 1----3GlcNAc structures in 5- to 10-mg amounts or higher. The terminal galactose of underivatized type 2 chain structures is removed by hydrolysis with jack bean beta-galactosidase followed by transfer of galactose in beta 1----3 linkage catalyzed by a beta 1----3-galactosyltransferase from human colonic adenocarcinoma Colo 205 cells which was first depleted of beta 1----4-galactosyltransferase by chromatography on alpha-lactalbumin-Sepharose. Scaled-up reaction mixtures provided a final yield of product after isolation of about 90% from the immediate Lc3Cer precursor in the 5-mg product range. The biosynthetic product was subjected to extensive chemical analysis by 1H NMR and mass spectrometric methods. These results indicated the presence of a high purity terminal Gal beta 1----3-linked product. The amount of material was sufficient for nondestructive characterization by 2-D NMR, with subsequent confirmation of structure by +FAB-MS and methylation analysis by GC-MS. The results indicate an effective means to rapidly generate lacto-series type 1 precursors in vitro as a superior alternative to direct tissue extractive procedures.

L73 ANSWER 28 OF 53 MEDLINE DUPLICATE 17
 AB A UDP-Gal:Gal beta 1----4GlcNAc-R alpha 1----3- and a UDP-Gal:GlcNAc-R beta 1----4-galactosyltransferase have been purified 44,000- and 101,000-fold, respectively, from a Triton X-100 extract of calf thymus by affinity chromatography on UDP-hexanolamine-Sepharose and alpha-lactalbumin-Sepharose in a yield of 25-40%. Sodium dodecyl sulfate gel electrophoresis under reducing conditions revealed a major polypeptide species with a molecular weight of 40,000 and a minor form at Mr 42,000 for the alpha 1----3-galactosyltransferase and a major polypeptide with Mr 51,000 for the beta 1----4-galactosyltransferase. Analytical gel filtration on Sephadex G-100 yielded a monomeric form for each of the galactosyltransferases with Mr 43,000 and 59,000 respectively, in addition to peaks of activity at higher molecular weights. Isoelectric focussing of the alpha 1----3-galactosyltransferase revealed a significant charge heterogeneity with forms varying in pI values between 5.0 and 6.5. Acceptor specificity studies indicated that the purified alpha 1----3-galactosyltransferase was free from contaminating galactosyltransferase activities such as those involved in the synthesis of Gal beta 1----4GlcNAc-R and Gal beta 1----3GalNAc-R sequences, the blood group B determinant, the PK antigen, trihexosylceramide, and ganglioside GM1. The alpha 1----3-galactosyltransferase appeared to be highly active with glycoproteins, oligosaccharides, and glycolipids having a terminal Gal beta 1----4GlcNAc beta 1----unit such as asialo-alpha 1-acid glycoprotein (Km = 1.25 mM), Gal beta 1----4GlcNAc beta 1----2Man alpha 1----3Man beta 1----4GlcNAc (Km = 0.57 mM), and paragloboside. The action of the alpha 1----3-galactosyltransferase was found to be mutually exclusive with that of the NeuAc:Gal beta 1----4GlcNAc-R alpha 2----6-sialyltransferase from bovine colostrum. In addition alpha 1----3-fucosylation of the N-acetylglucosamine residue in the preferred disaccharide acceptor structure completely blocked galactosylation of the alpha 1----3-galactosyltransferase.

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	81.23	81.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

STN INTERNATIONAL LOGOFF AT 17:08:30 ON 03 JAN 2003

	L #	Hits	Search Text	DBs	Time Stamp
1	L1	532	galactosyl adj transferase\$1 or galactosyltransferase\$1	USPAT; US-PGPUB	2003/01/03 14:49
2	L2	36	'3' adj2 1	USPAT; US-PGPUB	2003/01/03 15:11
3	L3	20	2 same (gene\$1 or sequence\$1)	USPAT; US-PGPUB	2003/01/03 15:12
4	L4	9	2 same (murine or mouse)	USPAT; US-PGPUB	2003/01/03 15:13
5	L5	20	3 or 4	USPAT; US-PGPUB	2003/01/03 14:51
6	L6	121	1,3 adj2 1	USPAT; US-PGPUB	2003/01/03 15:12
7	L7	90	6 same (gene\$1 or sequence\$1)	USPAT; US-PGPUB	2003/01/03 15:12
8	L8	50	6 same (murine or mouse)	USPAT; US-PGPUB	2003/01/03 15:13
9	L9	102	7 or 8	USPAT; US-PGPUB	2003/01/03 15:13

	L #	Hits	Search Text	DBs	Time Stamp
1	L1	532	galactosyl adj transferase\$1 or galactosyltransferase\$1	USPAT; US-PGPUB	2003/01/03 14:49
2	L2	36	'3' adj2 1	USPAT; US-PGPUB	2003/01/03 14:50
3	L3	20	2 same (gene\$1 or sequence\$1)	USPAT; US-PGPUB	2003/01/03 14:51
4	L4	9	2 same (murine or mouse)	USPAT; US-PGPUB	2003/01/03 14:51
5	L5	20	3 or 4	USPAT; US-PGPUB	2003/01/03 14:51

PGPUB-DOCUMENT-NUMBER: 20030005477

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030005477 A1

TITLE: Transgenic mice containing beta3GalT2 gene disruptions

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Leviten, Michael W.	Palo Alto	CA	US	

APPL-NO: 10/ 112616

DATE FILED: March 29, 2002

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60280362 20010329 US
non-provisional-of-provisional 60326700 20011002 US

US-CL-CURRENT: 800/18,435/320.1 ,800/21

ABSTRACT:

The present invention relates to transgenic animals, as well as compositions and methods relating to the characterization of gene function. Specifically, the present invention provides transgenic mice comprising mutations in a .beta.3GalT2 gene. Such transgenic mice are useful as models for disease and for identifying agents that modulate gene expression and gene function, and as potential treatments for various disease states and disease conditions.

RELATED APPLICATIONS

[0001] This application claims priority to U.S. Provisional Application No. 60/280,362, filed Mar. 29, 2001; and U.S. Provisional Application No. 60/326,700, filed Oct. 2, 2001, the entire contents of which are incorporated herein by reference.

----- KWIC -----

Summary of Invention Paragraph - BSTX:

[0007] Novel UDP-galactose:beta-N-acetylglucosamine beta 1, 3-galactosyltransferase (.beta.3GalT2) genes were isolated, in particular, a .beta.3GalT2 gene which encodes a type II transmembrane protein of 422 amino

acids was isolated from a mouse genomic library. (GenBank Accession No.: NM.sub.--020025; GI: 9910135; Hennet et al., J. Biol. Chem. 273(1):58-65 (1998)). The B3galt2 gene shares sequence identity with the B3galt1 and B3galt3 genes, which encode type II transmembrane proteins of 326 and 331 amino acids, respectively. The three proteins encoded by B3galt2, B3galt1 and B3galt3 constitute a distinct subfamily and were found to be mainly expressed in brain tissue.

Summary of Invention Paragraph - BSTX:

[0008] As these genes, in particular, UDP-galactose:beta-N-acetylglucosamine beta 1, 3-galactosyltransferase ("beta.3GalT2") (see, GenBank Accession No.: NM.sub.--020025; GI: 9910135), may be important in biological and disease processes, a clear need exists for further in vivo characterization, which may aid in the identification and discovery of therapeutics and treatments useful in preventing, ameliorating or correcting dysfunctions or diseases.

PGPUB-DOCUMENT-NUMBER: 20020177551

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177551 A1

TITLE: Compositions and methods for treatment of neoplastic disease

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Terman, David S.	Pebble Beach	CA	US	

APPL-NO: 09/ 870759

DATE FILED: May 30, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60208128 20000531 US

US-CL-CURRENT: 514/12,435/325 ,530/350

ABSTRACT:

The present invention comprises compositions and methods for treating a tumor or neoplastic disease in a host, The methods employ conjugates comprising superantigen polypeptides, nucleic acids with other structures that preferentially bind to tumor cells and are capable of inducing apoptosis. Also provided are superantigen-glycolipid conjugates and vesicles that are loaded onto antigen presenting cells to activate both T cells and NKT cells. Cell-based vaccines comprise tumor cells engineered to express a superantigen along with glycolipids products which, when expressed, render the cells capable of eliciting an effective anti-tumor immune response in a mammal into which these cells are introduced. Included among these compositions are tumor cells, hybrid cells of tumor cells and accessory cells, preferably dendritic cells. Also provided are tumoricidal T cells and NKT cells devoid of inhibitory receptors or inhibitory signaling motifs which are hyperresponsive to the the above compositions and lipid-based tumor associated antigens that can be administered for adoptive immunotherapy of cancer and infectious diseases.

----- KWIC -----

Detail Description Paragraph - DETX:

[0143] Nucleic acids encoding .alpha.1-3-galactosyltransferase polypeptides are known (Sandrin, M S et al., Proc. Natl. Acd. Sci. USA 90: 11391-11395

(1993)). A cDNA clone encoding murine .alpha.1-3-galactosyltransferase is prepared using the known sequence of this protein and the polymerase chain reaction (PCR) technique (Dabrowski, P L et al., Transplant. Proc. 26: 1335-1337 (1994). Briefly, two oligonucleotide primers are synthesized: (SEQ ID NO:30) 5'-GAATTCAAGCTTATGATCACTATGCTTCAAG-3', which is a sense primer that encodes the first 6 amino acids of the mature .alpha.1-3-galactosyltransferase and contains an HindIII restriction site; and (SEQ ID NO:31) 5'-GAATTCCTGCAGTCAGACATTATTCTAAC-3', which is an anti-sense primer that encodes the last 5 amino acids of the premature .alpha.1-3-galactosyltransferase and contains an in-frame termination codon and PstI restriction site. These primers amplify a 1185 bp fragment from a C57BL/6 spleen cell cDNA library that is subsequently purified, digested with HindIII and PstI (Pharmacia LKB) restriction endonucleases, and directionally cloned into HindIII/PstI-digested expression vector such as CDM8 vector. After verifying the correct sequence, the .alpha.1-3-galactosyltransferase-containing expression vector is transfected into heterologous cells such as COS cells to confirm activity. Activity can be confirmed by testing transfected cells for .alpha.Gal expression using the IB4 lectin (Sigma) of Griffonia simplicifolia that binds to Gal residues.

Detail Description Paragraph - DETX:

[0149] To test for the presence of .alpha.Gal on a cell surface, .alpha.1-3 galactosyltransferase knockout mice that do not express the .alpha.Gal antigen are used. The .alpha.1-3 galactosyltransferase knockout mice are described elsewhere (Tearle et al., Transplantation 61:13-19 (1996) and Shinkel et al., Transplantation 64:197-204 (1997)). A syngeneic tumor cell that is .alpha.Gal negative such as B16 melanoma variants is transfected with nucleic acids that encode a given carbohydrate modifying enzyme. These transfected cells are then implanted into the knockout mouse that received plasma containing .alpha.Gal specific antibodies. Tumors do not grow in animals containing .alpha.Gal specific antibodies if the .alpha.Gal epitope is expressed.

PGPUB-DOCUMENT-NUMBER: 20020128221

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128221 A1

TITLE: Glycosyltransferase vectors for treating cancer

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schiff, J. Michael	Menlo Park	CA	US	

APPL-NO: 09/ 994427

DATE FILED: November 26, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60253395 20001127 US

US-CL-CURRENT: 514/44,435/193 ,435/320.1 ,435/366 ,435/69.1 ,536/23.2

ABSTRACT:

This disclosure provides a system for specifically killing cancer cells which can be used in the course of human therapy. Vectors of the invention comprise an encoding sequence for a glycosyltransferase, under control of a tumor or tissue specific transcriptional control element, such as the promoter for telomerase reverse transcriptase. Exemplary glycosyltransferases are the A or B transferase enzymes, which cause the cancer cells to express ABO histo blood group allotypes against which humans have naturally occurring antibody. This provides for ongoing surveillance for newly emerging cells with a malignant phenotype.

REFERENCE TO RELATED APPLICATION

[0001] This application claims priority to U.S. patent application Ser. No. 60/253,395; filed Nov. 27, 2000, pending. The priority application is hereby incorporated herein by reference in its entirety.

----- KWIC -----

Detail Description Table CWU - DETL:

2TABLE 2 Sequences listed in this Disclosure SEQ. ID NO: Designation
Reference 1 Lambda clone designated .lambda.G.phi.5 GenBank Accession

AF121948 (ATCC Accession No. 98505) International Patent Publication
 Contains human Telomerase Reverse WO 00/46355. Transcriptase (hTERT) genomic
 insert (residues 44-15375). The ATG translation initiation site begins at
 residue 13545. 2 Human histo blood group A transferase GenBank Accession
 J05175 cDNA sequence See also Accession Nos. AF134413 & AF134412; Yamamoto
 et al., Nature May 17 1990; 345: 229 (1990); U.S. Pat. No. 5,326,857 3
 Human histo blood group A transferase (supra) amino acid sequence 4 Human
 histo blood group B transferase GenBank Accession AF134414 cDNA sequence
 Yamamoto et al., Nature May 17 1990; 345: 229 (1990); U.S. Pat. No.
 5,326,857 5 Human histo blood group B transferase (supra) amino acid
sequence 6 Marmoset .alpha.1,3-galactosyltransferase GenBank Accession S71333
 amino acid sequence Henion et al., Glycobiology 4,193 (1994) 7 Amino acid
 translation of human (infra) 1,3-galactosyltransferase pseudogene 8 Sheep
 .alpha.1,3-galactosyltransferase Chris Denning & John Clark, Geron Biomed
 amino acid sequence 9 Bovine .alpha.1,3-galactosyltransfe- rase GenBank
 Accession J04989 amino acid sequence Joziassse et al. "Bovine .alpha.1->3-
 galactosyltransferase" J. Biol. Chem. 264, 14290 (1989) 10 Pig
 .alpha.1,3-galactosyltransferase GenBank Accession L36152 amino acid sequence
 Sus scrofa alpha-1,3-galactosyltransferase mRNA. Strahan et al. "cDNA
sequence and chromosome localization of pig .alpha.1,3
 galactosyltransferase" Immunogenetics 41, 101 (1995) See also GenBank
 Accession L36535 Sandrin et al. "Characterization of cDNA clones for porcine
 a(1,3)galactosyl transferase" Xenotransplantation (1994) 11 Mouse
 .alpha.1,3-galactosyltransferase GenBank Accession M26925 amino acid sequence
 Larsen et al. "Isolation of a cDNA encoding a murine UDP galactose:
 .beta.-D-galactosyl-1,4- N-acetyl-D-glucosaminide alpha-1,3-
 galactosyltransferase" Proc. Natl. Acad. Sci. USA 86, 8227 (1989) See also
 GenBank Accession IM85153 Joziassse et al. "Murine alpha-1,3-
 galactosyltransferase: A single gene locus specifies four isoforms of the
 enzyme by alternative splicing" J. Biol. Chem. 267, 5534 (1992) 12
 Consensus .alpha.1,3-galactosyltransferase This Invention amino acid
sequence 13 Humanized .alpha.1,3-galactosyltransferase This Invention amino
 acid sequence 14 Marmoset .alpha.1,3-galactosyltransferase GenBank Accession
 S71333 cDNA sequence Henion et al., Glycobiology 4,193 (1994) 15 Human
 .alpha.1,3-galactosyltransferase GenBank Accession J05421 pseudogene sequence
 Larsen et al., J. Biol. Chem. .265: 7055, 1990 See also GenBank Accession
 M60263 Joziassse et al. "Characterization of an
 alpha-1->3-galactosyltransferase homologue on human chromosome 12 that is
 organized as a processed pseudogene" J. Biol. Chem. 266, 6991 (1991) 16
 Humanized .alpha.1,3-galactosyltransferase This Invention encoding sequence
 17 Sheep .alpha.1,3-galactosyltransferase Chris Denning & John Clark, Geron
 Biomed encoding sequence

PGPUB-DOCUMENT-NUMBER: 20020073439

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020073439 A1

TITLE: Cloned ungulate embryos and animals, use of cells, tissues and organs thereof for transplantation therapies including Parkinson's disease

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stice, Steven L.	Belchertown	MA	US	
Cibelli, Jose	Amherst	MA	US	
Robl, James M.	Belchertown	MA	US	

APPL-NO: 09/ 534500

DATE FILED: March 24, 2000

CONTINUED PROSECUTION APPLICATION: This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).

RELATED-US-APPL-DATA:

child 09534500 A1 20000324 parent division-of 09066652 19980427 US PENDING
child 09066652 19980427 US parent continuation-in-part-of 09004606 19980108 US
PATENTED child 09004606 19980108 US parent continuation-in-part-of 08888057
19970703 US PATENTED child 08888057 19970703 US parent continuation-in-part-of
08781752 19970110 US PATENTED

US-CL-CURRENT: 800/8,800/14 ,800/15 ,800/16 ,800/17 ,800/18 ,800/24

ABSTRACT:

Methods and cell lines for cloning ungulate embryos and offspring, in particular bovines and porcines, are provided. The resultant fetuses, embryos or offspring are especially useful for the expression of desired heterologous DNAs, and may be used as a source of cells or tissue for transplantation therapy for the treatment of diseases such as Parkinson's disease.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of application Ser. No. 09/004,606, filed Jan. 8, 1998, which is a continuation-in-part of Ser. No. 08/888,057 which is a continuation-in-part of Ser. No. 08/781,752, the contents of which are hereby incorporated by reference.

----- KWIC -----

Claims Text - CLTX:

45. The cell line of claim 44, wherein said gene is selected from the group consisting of MHC I, MHC II, FAS, and .alpha.1, 3 galactosyltransferase.

PGPUB-DOCUMENT-NUMBER: 20020042369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042369 A1

TITLE: Campylobacter glycosyltransferases for biosynthesis of gangliosides and ganglioside mimics

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gilbert, Michel	Hull	CA		
Wakarchuk, Warren W.	Gloucester		CA	

APPL-NO: 09/ 816028

DATE FILED: March 21, 2001

RELATED-US-APPL-DATA:

child 09816028 A1 20010321 parent continuation-in-part-of 09495406 20000131 US
PENDING non-provisional-of-provisional 60118213 19990201 US

US-CL-CURRENT: 514/12,435/193 ,435/320.1 ,435/325 ,536/23.2

ABSTRACT:

This invention provides prokaryotic glycosyltransferases, including a bifunctional sialyltransferase that has both an .alpha.2,3- and an .alpha.2,8-activity. A .beta.1,4-GalNAc transferase and a .beta.1,3-galactosyltransferase are also provided by the invention, as are other glycosyltransferases and enzymes involved in synthesis of lipooligosaccharide (LOS). The glycosyltransferases can be obtained from, for example, Campylobacter species, including C. jejuni. In additional embodiments, the invention provides nucleic acids that encode the glycosyltransferases, as well as expression vectors and host cells for expressing the glycosyltransferases.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims benefit of U.S. Provisional Application No. 60/118,213, which was filed on Feb. 1, 1999, and is a continuation-in-part of U.S. Application Ser. No. 09/495,406 filed Jan. 31, 2000, both of which are incorporated herein by reference for all purposes.

----- KWIC -----

Detail Description Paragraph - DETX:

[0125] One example of a .beta.1,3-galactosyltransferase-encoding nucleic acid of the invention is an isolated and/or recombinant form of the .beta.1,3-galactosyltransferase-encoding nucleic acid of C. jejuni OH4384. This nucleic acid includes a nucleotide sequence as shown in SEQ ID NO: 26. Another suitable .beta.1,3-galactosyltransferase-encoding nucleic acid includes a nucleotide sequence of a C. jejuni NCTC 11168 strain, for which the nucleotide sequence is shown in SEQ ID NO: 28. The .beta.1,3-galactosyltransferase-encoding polynucleotide sequences of the invention are typically at least about 75% identical to the nucleic acid sequence of SEQ ID NO: 26 or that of SEQ ID NO: 28 over a region at least about 50 nucleotides in length. More preferably, the P1,3-galactosyltransferase-encoding nucleic acids of the invention are at least about 85% identical to at least one of these nucleotide sequences, and still more preferably are at least about 95% identical to the nucleotide sequences of SEQ ID NO: 26 and/or SEQ ID NO: 28, over a region of at least 50 amino acids in length. In presently preferred embodiments, the region of percent identity extends over a longer region than 50 nucleotides, more preferably over a region of at least about 100 nucleotides, and most preferably over the full length of the .beta.1,3-galactosyltransferase-encoding region.

PGPUB-DOCUMENT-NUMBER: 20010039667

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039667 A1

TITLE: Cloned ungulate embryos and animals, use of cells, tissues and organs thereof for transplantation therapies including parkinson's disease

PUBLICATION-DATE: November 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stice, Steven L.	Belchertown	MA	US	
Cibelli, Jose	Amherst	MA	US	
Robl, James M.	Belchertown	MA	US	

APPL-NO: 09/ 845352

DATE FILED: May 1, 2001

RELATED-US-APPL-DATA:

child 09845352 A1 20010501 parent continuation-of 09066652 19980427 US PENDING
child 09066652 19980427 US parent continuation-in-part-of 09004606 19980108 US
GRANTED parent-patent 6215041 US child 09004606 19980108 US parent
continuation-in-part-of 08888057 19970703 US GRANTED parent-patent 6235969 US
child 08888057 19970703 US parent continuation-in-part-of 08781752 19970110 US
GRANTED parent-patent 5945577 US

US-CL-CURRENT: 800/15,424/93.21 ,435/325

ABSTRACT:

Methods and cell lines for cloning ungulate embryos and offspring, in particular bovines and porcines, are provided. The resultant fetuses, embryos or offspring are especially useful for the expression of desired heterologous DNAs, and may be used as a source of cells or tissue for transplantation therapy for the treatment of diseases such as Parkinson's disease.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of Ser. No. 09/066,652, filed Apr. 27, 1998, which is a continuation-in-part of Ser. No. 09/004,606, filed Jan. 8, 1998, which is a continuation-in-part of Ser. No. 08/888,057 which is a continuation-in-part of Ser. No. 08/781,752, the contents of which are hereby incorporated by reference.

----- KWIC -----

Claims Text - CLTX:

45. The cell line of claim 44, wherein said gene is selected from the group consisting of MHC I, MHC II, FAS, and al, 3 galactosyltransferase.

PGPUB-DOCUMENT-NUMBER: 20010039335

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039335 A1

TITLE: Secreted proteins and polynucleotides encoding them

PUBLICATION-DATE: November 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jacobs, Kenneth	Newton	MA	US	
McCoy, John M.	Reading	MA	US	
LaVallie, Edward R.	Harvard	MA	US	
Collins-Racie, Lisa A.	Acton	MA	US	
Evans, Cheryl	Germantown	MD	US	
Merberg, David	Acton	MA	US	
Treacy, Maurice	Co. Dublin	MA	IE	
Agostino, Michael J.	Andover	MA	US	
Steininger, Robert J.	Cambridge	MA	US	
II	Lowell	MA	US	
Spaulding, Vikki	Brookline	CA	US	
Wong, Gordon G.	So. San Francisco	MA	US	
Clark, Hilary	Arlington	US		
Fechtel, Kim				

APPL-NO: 09/ 729674

DATE FILED: December 4, 2000

RELATED-US-APPL-DATA:

child 09729674 A1 20001204 parent continuation-of 09539330 20000330 US PENDING
child 09539330 20000330 US parent continuation-in-part-of 09197886 19981123 US
ABANDONED non-provisional-of-provisional 60126425 19970410 US
non-provisional-of-provisional 60067454 19971204 US
non-provisional-of-provisional 60068379 19971220 US
non-provisional-of-provisional 60070346 19980102 US
non-provisional-of-provisional 60070643 19980107 US
non-provisional-of-provisional 60070755 19980108 US
non-provisional-of-provisional 60071304 19980113 US
non-provisional-of-provisional 60072134 19980122 US
non-provisional-of-provisional 60073095 19980130 US
non-provisional-of-provisional 60075038 19980218 US

US-CL-CURRENT: 536/23.5,435/325 ,435/69.5 ,530/351

ABSTRACT:

Novel polynucleotides and the proteins encoded thereby are disclosed.

[0001] This application is a continuation-in-part of the following applications:

[0002] (1) Ser. No. 09/197,886 (GI 6055A), filed Nov. 23, 1998; which is a continuation-in-part of provisional application Ser. No. 60/126,425 (GI 6055), filed Nov. 26, 1997, now abandoned;

[0003] (2) Ser. No. 09/203,106 (GI 6056A), filed Nov. 30, 1998; which is a continuation-in-part of provisional application Ser. No. 60/067,454 (GI 6056), filed Dec. 4, 1997, now abandoned;

[0004] (3) Ser. No. 09/212,843 (GI 6057A), filed Dec. 16, 1998; which is a continuation-in-part of provisional application Ser. No. 60/068,379 (GI 6057), filed Dec. 20, 1997, now abandoned;

[0005] (4) Ser. No. 09/227,653 (GI 6058A), filed Dec. 30, 1998; which is a continuation-in-part of provisional application Ser. No. 60/070,346 (GI 6058), filed Jan. 2, 1998, now abandoned;

[0006] (5) Ser. No. 09/225,049 (GI 6059A), filed Jan. 4, 1999; which is a continuation-in-part of provisional application Ser. No. 60/070,643 (GI 6059), filed Jan. 7, 1998, now abandoned;

[0007] (6) Ser. No. 09/225,585 (GI 6060A), filed Jan. 6, 1999; which is a continuation-in-part of provisional application Ser. No. 60/070,755 (GI 6060), filed Jan. 8, 1998, now abandoned;

[0008] (7) Ser. No. 09/227,462 (GI 6061A), filed Jan. 8, 1999; which is a continuation-in-part of provisional application Ser. No. 60/071,304 (GI 6061), filed Jan. 13, 1998, now abandoned;

[0009] (8) Ser. No. 09/235,609 (GI 6062A), filed Jan. 20, 1999; which is a continuation-in-part of provisional application Ser. No. 60/072,134 (GI 6062), filed Jan. 22, 1998, now abandoned;

[0010] (9) Ser. No. 09/237,847 (GI 6063A), filed Jan. 27, 1999; which is a continuation-in-part of provisional application Ser. No. 60/073,095 (GI 6063), filed Jan. 30, 1998, now abandoned;

[0011] (10) Ser. No. 09/251,600 (GI 6064A), filed Feb. 17, 1999; which is a continuation-in-part of provisional application Ser. No. 60/075,038 (GI 6064), filed Feb. 18, 1998, now abandoned;

[0012] all of which are incorporated by reference herein.

----- KWIC -----

Detail Description Paragraph - DETX:

[3424] The nucleotide sequence disclosed herein for nt746.sub.--4 was searched against the GenBank and GeneSeq nucleotide sequence databases using BLASTN/BLASTX and FASTA search protocols. nt746.sub.--4 demonstrated at least some similarity with sequences identified as AA489740 (aa43c06.r1 Soares NhPu S1 Homo sapiens cDNA clone 823690 5'), J04989 (Bovine alpha 1.sub.--3 galactosyltransferase mRNA completed cds), M60263 (Human alpha-1,3-galactosyltransferase (HGT-2) pseudogene), Q74712 (Galactosyl transferase clone), R24770 (yg42c11.r1 Homo sapiens cDNA clone 35316 5' similar to SP GATR_BOVIN P14769 N-ACETYLLACTOSAMINIDE ALPHA-1,3-GALACTOSYL-TRANSFERASE), and S71333 (alpha 1,3 galactosyltransferase [New Worl d monkeys, mermoset lymphoid cell line B95.8, rRNA Partial, 1131

nt)). The predicted amino acid sequence disclosed herein for nt746.sub.--4 was searched against the GenPept and GeneSeq amino acid sequence databases using the BLASTX search protocol. The predicted nt746.sub.--4 protein demonstrated at least some similarity to sequences identified as M26925 (galactosyltransferase (EC 2.4.1.151) [Mus musculus]), R80016 (Marmoset alpha-1,3-galactosyltransferase), S71333 (alpha 1,3 galactosyltransferase, alpha 1,3GT [New World monkeys, marmoset lymphoid cell line B95.8, Peptide, 376 aa] [Platyrrhini]), and W13639 (Murine alpha(1,3)-galactosyltransferase). Based upon sequence similarity, nt746.sub.--4 proteins and each similar protein or peptide may share at least some activity. The TopPredIII computer program predicts a potential transmembrane domain within the nt746.sub.--4 protein sequence centered around amino acid 15 of SEQ ID NO:36. The nucleotide sequence of nt746.sub.--4 indicates that it may contain an LTR repetitive element.

PGPUB-DOCUMENT-NUMBER: 20010034028

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010034028 A1

TITLE: Methods and compositions for elucidating relative protein expression levels in cells

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Link, Charles J.	Des Moines	IA	US	
Seregina, Tatiana	Ames	IA	US	
Vahanian, Nicholas N.	Ames	IA	US	
Higginbotham, James N.	Ames	IA	US	
Ramsey, W. Jay	Ames	IA	US	
Powers, Bradley J.	Ames	IA	US	
Shulka, Sachet A.	Ames	IA	US	
Young, Won Bin	Ames	IA	US	

APPL-NO: 09/ 811842

DATE FILED: March 19, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60190678 20000320 US
non-provisional-of-provisional 60198722 20000420 US

US-CL-CURRENT: 435/6,435/455 ,536/23.2

ABSTRACT:

The present invention relates generally to methods and compositions for the identification of differential protein expression patterns and concomitantly the active genetic regions that are directly or indirectly involved in different tissue types, disease states, or other cellular differences desirable for diagnosis or for targets for drug therapy.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims benefit under 35 U.S.C. .sctn. 119(e) of provisional application No. 60/190,678 filed Mar. 20, 2000.

----- KWIC -----

Brief Description of Drawings Paragraph - DRTX:

[0041] To overcome this obstacle, a Type IIS restriction enzyme (RE) will be introduced between the SA signal and the start codon (ATG) of marker genes, such as hrGFP, alpha 1-3 galactosyltransferase (.alpha.-gal), etc. This can be illustrated as SA-RE-ATG. This RE site can be designed in frame with markers. After the SA joins to the splicing donor (SD) of the integrated cellular gene by cellular splicing mechanism, reverse transcription will be employed to convert this hybrid RNA transcript into a complementary DNA (cDNA) (inclusive of, but not limited to, cDNA as cellular DNA may be used). This cDNA will then be subjected to RE digestion of exon from the integrated gene ten to twenty bases away from the SD/SA depending on which RE is used. A biotin-labeled primer #1 designed for a known MK gene is then employed to extend the ssDNA into this exon. Collection of this biotin-ssDNA by streptavidin conjugated magnetic beads will enrich these specific ssDNA for DNA terminal transferase reaction. Polymer deoxynucleotide can be added onto these ssDNA as a tail at their 3' end. A polymer primer complementary to the polymer tail and a second primer #2 on MK marker gene can therefore be used to amplify this 3' end of exon region. These short tags from different integrated genes by ligation reactions into a longer DNA fragment that is subsequently sequenced. Sequencing results of these tags can be used to retrieve the identity from EST databases or genomic databases. This approach can utilize all possible gene transfer methods to deliver above construct into DNA or RNA genomes of all organisms.

Detail Description Paragraph - DETX:

[0135] According to the invention the process begins by the insertion of an assay marker DNA sequence into the genome of a test cell to be analyzed. This assay marker sequence includes any expressed molecule which can be screened in a defined assay system such that the cells may be identified, selected, sorted and/or preferably quantified, based upon the expression of the marker sequence. In a preferred embodiment this marker sequence or (tag) will be a chromophore which will fluoresce (such as humanized tellina green fluorescence protein). Other examples of assay marker sequences which may be used according to the invention include .alpha.-1-3 galactosyltransferase, sodium/iodine symporter, (or viral envelope protein could be used). Still other marker systems include but are not limited to any detectable cell surface displayed protein; other markers can be used such as lipid, lipoprotein, glycolipid, and glycoprotein targets that can be tagged with specific fluorescent compounds using labeled antibodies, direct chemical linkage and/or combination of direct and indirect tagging.

US-PAT-NO: 6475756

DOCUMENT-IDENTIFIER: US 6475756 B1

TITLE: Development of viruses resistant to inactivation by the human complement system

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wirth; Dagmar	Braunschweig	N/A	N/A	DE
Spitzer; Dirk	Braunschweig	N/A	N/A	DE
Hauser; Hansjoerg	Braunschweig	N/A	N/A	DE

APPL-NO: 09/ 554838

DATE FILED: July 21, 2000

PCT-DATA:

APPL-NO: PCT/EP98/07484
DATE-FILED: November 20, 1998
PUB-NO: WO99/27121
PUB-DATE: Jun 3, 1999
371-DATE: Jul 21, 2000
102(E)-DATE: Jul 21, 2000

US-CL-CURRENT: 435/69.7; 424/192.1 ; 435/5 ; 536/23.4

ABSTRACT:

Murine retroviruses are the most important transfer systems for human gene therapy. However, their application is currently limited. One of the major restrictions both for an application in vivo resides in the problem that this virus type is sensitive to inactivation by human complement factors. Our invention overcomes this limitation. We have modified murine recombinant retroviruses in a way that they are resistant to human complement factors. This was achieved by genetic modification of the retroviral surface protein env which is responsible for receptor interaction: the receptor interacting domain of env was fused to catalytically active domains of human complement inactivation factors. These modified env were expressed in complement-sensitive cells and specifically integrated into virus particles. By this strategy cells and viruses are generated that are fully resistant to complement attack. Thus, this strategy provides a tool for establishment of complement resistant cells and generation of viruses for in vivo gene therapy.

20 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

----- KWIC -----

Detailed Description Text - DETX:

REFERENCES Bartholomew R. M. and Esser A. F. (1980) Mechanism of antibody-independent activation of the first component of complement (C1) on retrovirus membranes *Biochemistry* 19: 2847-2853 Brody B. A., Kimball M. G. and Hunter E. (1992) Mutations within the transmembrane glycoprotein of Mason-Pfizer monkey virus: loss of SU-TM association and effects on infectivity *Virology* 66: 3466-3475 Cooper N. R., Jensen F. C., Welsh R. M. and Oldstone M. B. A. (1976) Lysis of RNA tumor viruses by human serum: direct antibody-independent triggering of the classical complement pathway *J. Exp. Med.* 144: 970-984 Cosset F. L., Takeuchi Y., Battini J. L., Weiss R. A. and Collins M. K. L. (1995) High-titer packaging cells producing recombinant retroviruses resistant to human serum *J. Virol.* 69 (12): 7430-7436 Dorfman T., Mammano F., Haseltine W. A. and Gottlinger H. G. (1994) Role of the matrix protein in the virion association of the human immunodeficiency virus type 1 envelope protein *J. Virol.* 68: 1689-1696 Fodor W. L., Rollins S. A., Bianco-Caron S., Rother R. P., Guilmette E. R., Burton W. V., Albrecht J.-C., Fleckenstein B. and Squinto S. P. (1995) The complement control protein homolog of herpesvirus saimiri regulates serum complement by inhibiting C3 convertase activity *J. Virol.* 69: 3889-3892 Rother R. P., Fodor W. L., Springhorn J. P., Birks C. W., Setter E., Sandrin M. S., Squinto S. P. and Rollins S. A. (1995) A novel mechanism of retrovirus inactivation in human serum mediated by anti-Alpha-galactosyl natural antibody *J. Exp. Med.* 182: 1345-1355 Rother R. P., Squinto S. P., Mason J. M. and Rollins S. A. (1995) Protection of retroviral vector particles in human blood through complement inhibition *Hum. Gene Ther.* 6: 429-435 Saifuddin M., Hedayati T., Atkinson J. P., Holguin M. E., Parker C. J. and Spear G. T. (1997) Human immunodeficiency virus type 1 incorporates both glycosyl phosphatidylinositol-anchored CD5 and CD59 and integral CD46 at levels that protect from complement-mediated destruction *J. Gen. Virol.* 78: 1907-1911 Takeuchi Y., Cosset F.-L. C., Lachmann P. J., Okada H., Weiss R. A. and Collins M. K. L. (1994) Type C retrovirus inactivation by human complement is determined by both the viral genome and the producer cell *J. Virol.* 68: 8001-8007 Takeuchi Y., Porter C. D., Strahan K. M., Preece A. F., Gustafsson K., Cosset F. L., Weiss R. A. and Collins M. K. L. (1996) Sensitization of cells and retroviruses to human serum by (Alpha1-3) galactosyltransferase *Nature (London)* 379: 85-88 Takeuchi Y., Porter C. D., Strahan K. M., Preece A. F., Gustafsson K., Cosset F. L., Weiss R. A. and Collins M. K. L. (1996) Sensitization of cells and retroviruses to human serum by (Alpha1-3) galactosyltransferase *Nature (London)* 379: 85-88 Welsh R. M., Cooper J. R., Jensen F. C. and Oldstone M. B. A. (1975) Human serum lyses RNA tumour viruses *Nature (London)* 257: 612-614

US-PAT-NO: 6413769

DOCUMENT-IDENTIFIER: US 6413769 B1

TITLE: .alpha.(1,3) galactosyltransferase negative porcine cells

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gustafsson; Kenth T.	Buckinghamshire	N/A	N/A	GB
Sachs; David H.	Newton	MA	N/A	N/A
Baetscher; Manfred W.	Winchester	MA	N/A	N/A

APPL-NO: 08/ 929940

DATE FILED: September 15, 1997

PARENT-CASE:

This application is a continuation of U.S. application Ser. No. 08/716,443, filed Sep. 16, 1996,(now abandoned), which is a U.S. application based under 35 U.S.C. 371 on PCT/US95/03940, filed Mar. 31, 1995 (abandoned) which is a continuation-in-part of application Ser. No. 08/228,933, filed Apr. 13, 1994 now abandoned.

US-CL-CURRENT: 435/325; 424/93.21 ; 435/320.1 ; 435/455

ABSTRACT:

Transgenic swine in which the normal expression of .alpha.(1, 3) galactosyltransferase is prevented in at least one organ of tissue type. The absence or inactivation of this enzyme prevents the production of carbohydrate moieties having the distinctive terminal Gal.alpha.1-3Gal.beta.1-4GlcNAc epitope that is a significant factor in xenogeneic, particularly human, transplant rejection of swine grafts.

4 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

----- KWIC -----

Brief Summary Text - BSTX:

In accordance with the invention, swine organs or tissues or cells that do not

express $\alpha(1, 3)$ galactosyltransferase will not produce carbohydrate moieties containing the distinctive terminal Gal. α .1-3Gal. β .1-4GlcNAc epitope that is a significant factor in xenogeneic, particularly human, transplant rejection of swine grafts. Further in accordance with the invention, is the aspect of diminishing the production of $\alpha(1,3)$ galactosyltransferase to an extent sufficient to prevent the amount produced from providing carbohydrates with the Gal. α .1-3Gal. β .1-4GlcNAc epitope from being presented to the cell surface thereby rendering the transgenic animal, organ, tissue, cell or cell culture immunogenically tolerable to the intended recipient without requiring complete $\alpha(1,3)$ galactosyltransferase gene suppression.

Detailed Description Text - DETX:

Gene targeting constructions are generated as follows. A genomic library is made in lambda replacement vectors including Lambda FIX II, Lambda EMBL4 or Lambda Dash II (Stratagene Cloning Systems). The library is then plated at a density of around 50,000 plaques/15 cm plate and screened with a probe specific for Exon 9 of the swine $\alpha(1, 3)$ galactosyltransferase gene. The probe is generated using PCR which is carried out using a standard protocol: 35 cycles, anneal at 60.degree. C. for 20 sec, extend at 72.degree. C. for 40 sec and denature at 94.degree. C. for 20 sec. Positive clones with insert sizes of around 15 kb are then subcloned into plasmid vectors including pSP72 and engineered for targeting as either an insertion vector or a replacement vector.

US-PAT-NO: 6379933

DOCUMENT-IDENTIFIER: US 6379933 B1

TITLE: Method of transferring at least two saccharide units with a polyglycosyltransferase

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Karl F.	Willow Grove	PA	N/A	N/A
Roth; Stephen	Gladwyne	PA	N/A	N/A
Buczala; Stephanie L.	Jenkintown	PA	N/A	N/A

APPL-NO: 09/ 338943

DATE FILED: June 24, 1999

PARENT-CASE:

This application is a continuation application of application Ser. No. 08/478,140 filed Jun. 7, 1995 now U.S. Pat. No. 6,127,153, which is incorporated by reference herein in its entirety.

US-CL-CURRENT: 435/97; 435/100 ; 435/101 ; 435/170 ; 435/72 ; 435/84 ; 435/871

ABSTRACT:

The present invention relates to a method of transferring at least two saccharide units with a polyglycosyltransferase, a polyglycosyltransferase and a gene encoding such a polyglycosyltransferase.

18 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

----- KWIC -----

Other Reference Publication - OREF:

Greenwell et al., 1979, Blood Group A Synthesising Activity of the Blood Group B Gene Specified .alpha.-3-D-Galactosyl Transferase.

US-PAT-NO: 6361775

DOCUMENT-IDENTIFIER: US 6361775 B1

TITLE: Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galili; Uri	Wayne	PA	N/A	N/A
Repik; Patricia M.	West Trenton	NJ	N/A	N/A

APPL-NO: 09/ 173270

DATE FILED: October 15, 1998

PARENT-CASE:

This is a divisional of application Ser. No. 08/704,548, filed Sep. 11, 1996, now U.S. Pat. No. 5,879,675 which is a continuation-in-part of application Ser. No. 08/213,200 filed Mar. 15, 1994, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
US	PCT/US95/03156	March 13, 1995

US-CL-CURRENT: 424/184.1; 424/155.1 ; 424/156.1 ; 424/218.1 ; 424/277.1 ; 424/278.1 ; 424/816 ; 530/387.1

ABSTRACT:

The invention encompasses methods and compositions for inducing an immune response in an anti-Gal synthesizing animal including viral and tumor antigens manipulated to express .alpha.-galactosyl epitopes.

19 Claims, 27 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

----- KWIC -----

Other Reference Publication - OREF:

Galili and Swanson, "Gene Sequences Suggest Inactivation of .alpha.-1,

3-Galactosyltransferase in Catarrhines After the Divergence of Apes from Monkeys", Proc. Natl. Acad. Sci. USA (1991) 88:7401-7404.

US-PAT-NO: 6340461

DOCUMENT-IDENTIFIER: US 6340461 B1

TITLE: Superantigen based methods and compositions for treatment of diseases

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Terman; David Stephen	Pebble Beach	CA	93953	N/A

APPL-NO: 08/ 992877

DATE FILED: December 17, 1997

PARENT-CASE:

This application claims benefit of Provisional applications Ser No. 60/033,172 filed Dec. 17, 1996 and Ser. No. 60/044,074 filed Apr. 17, 1997.

US-CL-CURRENT: 424/193.1; 424/192.1 ; 424/194.1 ; 424/277.1 ; 424/278.1 ; 424/280.1 ; 424/282.1 ; 435/68.1 ; 435/69.1 ; 435/69.3 ; 435/69.7

ABSTRACT:

The present invention relates to therapeutic methods and compositions employing superantigens. Methods and compositions employing superantigens and immunotherapeutic proteins in combination with one another have been found to provide more effective treatment than either component used alone. Superantigens, in conjunction with one or more additional immunotherapeutic antigens, may be used to either induce a therapeutic immune response directed against a target or to inhibit a disease causing immune response. Specific combinations of superantigens and immunotherapeutic antigens are used to treat specific diseases. The induction (or augmentation) of a desired immune against a target may be used, for example, to kill cancer cells or kill the cells or an infectious agent. The inhibition of an immune response, e.g., through the induction of T cell anergy, may be used to reduce the symptoms of an autoimmune disease. Diseases that may be treated by the methods and compositions of the invention include neoplastic diseases, infectious diseases, and autoimmune diseases. One aspect of the invention is to provide methods for the treatment of diseases comprising the steps of administering an effective amount of a superantigen and an immunotherapeutic so as to have the desired therapeutic effect. The superantigen and immunotherapeutic antigen may be administered together as a mixture. Alternatively, the superantigen and immunotherapeutic antigen may be administered separately. In one embodiment of the invention, the superantigen and immunotherapeutic antigen are administered to the patient in the form of a immunotherapeutic antigen-superantigen polymer of the invention. Another aspect of the invention is to provide methods for the treatment of diseases comprising the steps of incubating a lymphocyte

population ex vivo a superantigen and an immunotherapeutic protein so as to either activate or anergize T cells within the selected population.

7 Claims, 8 Drawing figures

Exemplary Claim Number: 1,6

Number of Drawing Sheets: 8

----- KWIC -----

Detailed Description Text - DETX:

Xenoreactive natural Abs recognize Gal.alpha.1-3Gal.beta.1-4GlcNAc(galactose .alpha.1-3-galactose-.beta.1-4-N-acetylglucosamine) abbreviated as .alpha.-Gal. This antigen is expressed in the tissues of pigs, guinea pigs, rodents, dogs and cows but has not been detected in human tissues. It is expressed in endothelial cells and is thought to be a major antigenic target for hyperacute organ rejection in xenografts. Anti-Gal in a naturally occurring IgM antibody recently found to be present in large amounts in human serum. It binds to pig endothelial cells which express the .alpha.-Gal epitope. A triad of glycoproteins of molecular mass, 115, 125 and 135 kDa have been identified as the major targets of the surface of pig endothelial cells. After interaction with naturally occurring IgM antibodies xenografts undergo hyperacute rejection by a complement dependent mechanism within a few minutes. Surface expression of the ax-Gal epitope may be achieved by transfection of a cDNA clone encoding the .alpha. 1-3 galactosyl transferase (which transfers a terminal galactose residue with a .alpha.-1-3 linkage to a subterminal galactose and is missing in human and certain primate cells) into a human malignant tumor cell line such as melanoma or adenocarcinoma which does not express this epitope. The resulting transformed tumor cells with .alpha.-Gal expressed on their surface should be rapidly rejected by circulating .alpha.-Gal specific IgM antibodies in humans. The methodology of production of the gene is given below.

Detailed Description Text - DETX:

A cDNA clone, encoding the mouse .alpha.1-3-galactosyltransferase is produced by using the known sequence of this transferase and the PCR technique. Two oligonucleotides are synthesized:

Detailed Description Text - DETX:

.alpha.GT-2: 5'-GAATTCCTGCAGTCAGACATTATTCTAAC-3' (SEQ ID NO:68), which is the antisense oligonucleotide encoding the last 5 amino acids of the premature .alpha.1-3-galactosyltransferase and contains the in-phase termination codon and a PstI restriction site. The oligonucleotides are used to amplify a 1185-bp fragment from a C57BL/6 spleen cell cDNA library, which is subsequently purified, digested with HindIII and Pst I (Pharmacia LKB)restriction endonucleases, and directionally cloned into HindIII/Pst I-digested CDM8

vector. A plasmid (p.alpha.GT-3) is selected for further studies, sequenced to confirm the correct DNA sequence, and used for COS cells transfection. The IB4 lectin of Griffonia simplicifolia is obtained from Sigma.

Detailed Description Text - DETX:

Inject superantigen-.alpha.Gal conjugate in doses of 1 ng to 100 mg (molar ratios of SAG to .alpha.Gal of 1:10 to 1:106) using parenteral or oral route of administration. The conjugates may be placed in appropriate vehicles as given in Example 6 and infused over 1-4 hours in 500 cc of normal saline. The dose may be repeated every 2 and/or 3rd day depending on the strength of tolerance produced. Antibodies specific for .alpha.Gal would be expected to increase initially during the sensitization phase and then begin to decline as anergy to the .alpha.Gal antigen prevails. When titers are undetectable, the recipients would then be transplanted with the heterograft. Anergy may also be produced in recipients of organ heterografts by administering the .alpha.Gal and superantigen sequentially at 2 or 3 day intervals. Alternatively transgenic animals could be created using the transgene for α 1, 3-galactosyl-transferase with the appropriate tissue specific promoter to produce organs that do not express the .alpha.-Gal antigen. In addition anti-sense nucleotides may be used to bind and disable proteins or block function by preventing the translation of messenger RNA (mRNA) into protein. The anti-sense nucleotides for the .alpha.-Gal system will block the synthesis of the somatic gene product. The anti-sense nucleotides may be delivered parenterally or directly into organs or attached to proteins or liposomes.

US-PAT-NO: 6284493

DOCUMENT-IDENTIFIER: US 6284493 B1

TITLE: Method of synthesizing saccharide compositions

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roth; Stephen	Gladwyne	PA	N/A	N/A

APPL-NO: 09/ 265067

DATE FILED: March 9, 1999

PARENT-CASE:

This application is a continuation application of application Ser. No. 08/664,882 filed Jun. 17, 1996, U.S. Pat. No. 5,879,912, which is a continuation of application Ser. No. 08/091,372 filed Jul. 15, 1993 now abandoned, each of which is incorporated by reference herein in its entirety.

US-CL-CURRENT: 435/72; 435/193 ; 435/252.33 ; 536/23.2

ABSTRACT:

A method of synthesizing saccharide compositions is described. In this method, an acceptor moiety is contacted with at least one donor saccharide in the presence of at least one cell surface-bound glycosyltransferase specific for catalyzing the coupling of the acceptor moiety with the donor saccharide. The acceptor moiety used is a carbohydrate, a protein, a lipid, or a glycolipid.

28 Claims, 0 Drawing figures

Exemplary Claim Number: 1

----- KWIC -----

Brief Summary Text - BSTX:

Further, methods have been developed to alter the glycosyltransferases expressed by cells. Larsen et al., Proc. Natl. Acad. Sci. U.S.A., 86: 8227-8231 (1989), report a genetic approach to isolate cloned cDNA sequences that determine expression of cell surface oligosaccharide structures and their cognate glycosyltransferases. A cDNA library generated from mRNA isolated from a murine cell line known to express

UDP-galactose: .beta.-D-galactosyl-1,4-N-acetyl-D-glucosaminide
.alpha.-1,3-galactosyltransferase was transfected into COS-1 cells. The
transfected cells were then cultured and assayed for a 1-3
galactosyltransferase activity.

US-PAT-NO: 5879912

DOCUMENT-IDENTIFIER: US 5879912 A

TITLE: Method of synthesizing saccharide compositions

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roth; Stephen	Gladwyne	PA	N/A	N/A

APPL-NO: 08/ 664882

DATE FILED: June 17, 1996

PARENT-CASE:

This is a continuation of application Ser. No. 08/091,372 filed Jul. 15, 1993, now abandoned.

US-CL-CURRENT: 435/72; 435/193 ; 435/252.3 ; 435/252.33 ; 435/289.1 ; 435/320.1 ; 435/74 ; 435/75 ; 435/84 ; 536/23.2

ABSTRACT:

A method of synthesizing saccharide compositions is described. In this method, an acceptor moiety is contacted with at least one donor saccharide in the presence of at least one cell surface-bound glycosyltransferase specific for catalyzing the coupling of the acceptor moiety with the donor saccharide. The acceptor moiety used is a carbohydrate, a protein, a glycolipid, a lipid, or a glycolipid.

4 Claims, 0 Drawing figures

Exemplary Claim Number: 1

----- KWIC -----

Brief Summary Text - BSTX:

Further, methods have been developed to alter the glycosyltransferases expressed by cells. Larsen et al., Proc. Natl. Acad. Sci. U.S.A., 86: 8227-8231 (1989), report a genetic approach to isolate cloned cDNA sequences that determine expression of cell surface oligosaccharide structures and their cognate glycosyltransferases. A cDNA library generated from mRNA isolated from a murine cell line known to express UDP-galactose:.beta.-D-galactosyl-1,4-N-acetyl-D-glucosaminide

α -1,3-galactosyltransferase was transfected into COS-1 cells. The transfected cells were then cultured and assayed for α -1-3 galactosyltransferase activity.

US-PAT-NO: 5879675

DOCUMENT-IDENTIFIER: US 5879675 A

TITLE: Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galili; Uri	Wayne	PA	N/A	N/A
Repik; Patricia M.	West Trenton	NJ	N/A	N/A

APPL-NO: 08/ 704548

DATE FILED: September 11, 1996

PARENT-CASE:

This is a continuation-in-part of application Ser. No. 08/213,200 filed Mar. 15, 1994, now abandoned.

PCT-DATA:

APPL-NO: PCT/US95/03156
DATE-FILED: March 13, 1995
PUB-NO: WO95/24924
PUB-DATE: Sep 21, 1995
371-DATE: Sep 11, 1996
102(E)-DATE: Sep 11, 1996

US-CL-CURRENT: 424/93.1; 424/155.1 ; 424/156.1 ; 424/159.1 ; 424/184.1
; 424/218.1 ; 424/277.1 ; 424/278.1 ; 424/816

ABSTRACT:

The invention encompasses methods and compositions for inducing an immune response in an anti-Gal synthesizing animal including viral and tumor antigens manipulated to express .alpha.-galactosyl epitopes.

25 Claims, 28 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

----- KWIC -----

Other Reference Publication - OREF:

Galili and Swanson, "Gene Sequences Suggest Inactivation of α -1, 3-Galactosyltransferase in Catharrhines After the Divergence of Apes from Monkeys", Proc. Natl. Acad. Sci. USA (1991) 88:7401-7404.

US-PAT-NO: 5869035

DOCUMENT-IDENTIFIER: US 5869035 A

TITLE: Methods and compositions for inducing complement destruction of tissue

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Link, Jr.; Charles J.	Clive	IA	N/A	N/A
Levy; John P.	West Des Moines	IA	N/A	N/A

APPL-NO: 08/ 748344

DATE FILED: November 13, 1996

US-CL-CURRENT: 424/93.7; 424/277.1 ; 424/93.21 ; 435/320.1 ; 514/44

ABSTRACT:

The invention discloses methods and compositions for killing tumor cells in animals. Through transfer techniques, cancer cells are engineered to express an epitope which is targeted by natural antibodies causing complement destruction of transformed tumor cells that is typically associated with hyperacute xenograft rejection.

14 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

----- KWIC -----

Detailed Description Text - DETX:

This enzyme was found to be active in new world monkeys but not in old world monkeys and humans. The .alpha.1,3 GT cDNA has been cloned from bovine and murine cDNA libraries. Larson, R. D. et al. (1989) "Isolation of a cDNA Encoding Murine UDP galactose; .beta.D-galactosyl-1, 4-N Acetol-D-Glucosamine .alpha.1-**3 Galactosyl Transferase**: Expression Cloning by Gene Transfer", PNAS, USA 86:8227; and Joziassse, D. H. et al., (1989) "Bovine .alpha.1-**3 Galactosyl Transferase**: Isolation and Characterization of a cDNA Clone, Identification of Homologous Sequences in Human Genomic DNA", J. Biol Chem 264:14290.

Detailed Description Text - DETX:

The invention in one embodiment thus comprises the transformation of tumor cells with a polynucleotide which will create an α -galactosyl epitope on the tumor cells. One embodiment of the invention comprises transformation of tumor cells with a nucleotide sequence which encodes upon expression, the enzyme α -1,3 galactosyl transferase (α -1,3 GT). The α -1,3 GT cDNA has been cloned from bovine and murine cDNA libraries. Larson, R. D. et al. (1989) "Isolation of a cDNA Encoding Murine UDP galactose; β -D-galactosyl-1, 4-N Acetyl-D-Glucosamine α -1-3 Galactosyl Transferase: Expression Cloning by Gene Transfer", PNAS, USA 86:8227; and Joziassse, D. H. et al., (1989) "Bovine α -1-3 Galactosyl Transferase: Isolation and Characterization of a cDNA Clone, Identification of Homologous Sequences in Human Genomic DNA", J. Biol Chem 264:14290.

Detailed Description Text - DETX:

The mechanism of inactivation of murine type C amphotropic and ecotropic retroviral particles by human serum complement requires that the retrovirus originate from cells that encode a functional α -1-3-galactosyl transferase (i.e., cells derived from mammalian species other than old world primates), and is dependent on both the viral genome and producer cell type. Takeuchi, Y. et al. (1994) "Type C Retrovirus Inactivation By Human Complement Is Determined By Both The Viral Genome And The Producer Cell", J. Virol. 68:8001-8007.

US-PAT-NO: 5849991

DOCUMENT-IDENTIFIER: US 5849991 A

TITLE: Mice homozygous for an inactivated .alpha. 1,3-galactosyl transferase gene

DATE-ISSUED: December 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
d'Apice; Anthony J. F.	Balwyn	N/A	N/A	AU
Pearse; Martin J.	Mordialloc	N/A	N/A	AU
Robins; Allan J.	Waterloo Corner	N/A	N/A	AU
Crawford; Robert J.	West Lake Shores	N/A	N/A	AU
Rathjen; Peter D.	Blackwood	N/A	N/A	AU

APPL-NO: 08/ 378617

DATE FILED: January 26, 1995

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS The present application is a continuation-in-part of U.S. application Ser. No. 08/188,607, filed Jan. 27, 1994, now abandoned.

US-CL-CURRENT: 800/8; 435/320.1 ; 435/354 ; 435/463 ; 800/17 ; 800/18 ; 800/21 ; 800/22 ; 800/24

ABSTRACT:

Human pre-formed xenoantibodies play an important role in the hyperacute rejection response in human xenotransplantation. Disclosed are materials and methods for removing or neutralizing such antibodies. Also disclosed are materials and methods for reducing or eliminating the epitopes in the donor organs that are recognized by such antibodies. Such epitopes are formed as the result of activity by the enzyme .alpha.-1,3 galactosyltransferase. The porcine gene encoding .alpha.-1,3 galactosyltransferase is disclosed, as are materials and methods for inactivating ("knocking out") the .alpha.-1,3 galactosyltransferase gene in mammalian cells and embryos. Included are nucleic acid constructs useful for inactivating the .alpha.-1,3 galactosyltransferase gene in a target cell. Also disclosed is a novel leukemia inhibitory factor (T-LIF) that is useful for maintenance of embryonic stem cells and primordial germ cells in culture.

13 Claims, 47 Drawing figures

Exemplary Claim Number: 5

Number of Drawing Sheets: 42

----- KWIC -----

Detailed Description Text - DETX:

The general procedures set out in this Example provide guidelines that are readily adaptable to individual experimental situations that might employ, for example, different cell lines or equipment supplied by different manufacturers. This Example also provides specific procedures used and results obtained in generating a set of mouse ES cell lines in which the .alpha.1-3 galactosyltransferase gene was disrupted by homologous recombination. The general procedures provided in this Example are adapted for mouse ES cells. However, the procedures are substantially similar for porcine ES cells.

Detailed Description Text - DETX:

Results are shown in FIG. 18, which is a Southern blot of DNA from 15 ES cell lines probed with the diagnostic 0.7 kb EcoRI/XmnI DNA fragment described above and in Example 9. The 6.4 kb band, diagnostic for a homologous recombination event in the .alpha.1-3 galactosyltransferase gene (.alpha.1-3 Gal T) (see Example 9), is seen in 6 of the 15 ES cell lines examined. All of the 6 knockout cell lines appeared to be heterozygous for the inactivated allele since the 8.3 kb band, diagnostic for the uninterrupted .alpha.-1,3 -Gal T gene (see Example 9), was also present in all six lanes.

US-PAT-NO: 5821117

DOCUMENT-IDENTIFIER: US 5821117 A

TITLE: Xenotransplantation therapies

DATE-ISSUED: October 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sandrin; Mauro S.	Brunswick	N/A	N/A	AU
McKenzie; Ian F. C.	West Brunswick	N/A	N/A	AU

APPL-NO: 08/ 214580

DATE FILED: March 15, 1994

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
AU	PL 7854	March 16, 1993

US-CL-CURRENT: 435/320.1; 435/325 ; 536/23.2

ABSTRACT:

DNA sequences encoding a porcine Gal.alpha.(1,3) galactosyl transferase and clones containing such sequences are provided. The porcine Gal.alpha.(1,3) galactosyl transferase produces the Gal.alpha.(1,3)Gal epitope on the surfaces of porcine cells. This epitope is recognized by human anti-Gal.alpha.(1,3)Gal antibodies which are responsible for hyperacute rejection of xenotransplanted pig cells, tissues and organs.

8 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

----- KWIC -----

Brief Summary Text - BSTX:

Transgenic animals produced by homologous recombination and other such techniques to destroy wild type **gene** function are included within this invention, as are organs derived therefrom. By way of example, transgenic pigs may be produced utilizing homologous recombination techniques to produce a transgenic animal having non-functional .alpha.(1-3) **galactosyl transferase** genomic **sequences**. Tissues derived from such transgenic animals may then be

utilized in xenotransplantation into human patients with the avoidance of immune reaction between circulating human antibodies reactive with Gal.alpha.(1-3)Gal epitopes. Such transplants are contemplated to be well tolerated by transplant recipients. Whilst transplanted tissue may comprise other antigens which provoke immune reaction beyond those associated with Gal.alpha.(1-3)Gal epitopes, removing the major source of the immune reaction with such transplanted tissues should lead to xenotransplants being relatively well tolerated in conjunction with standard rejection therapy (treatment with immune suppressants such as cyclosporin).

US-PAT-NO: 5641668

DOCUMENT-IDENTIFIER: US 5641668 A

TITLE: Proteins having glycosyltransferase activity

DATE-ISSUED: June 24, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berger; Eric G.	Schofflisdorf	N/A	N/A	CH
Watzel; Manfred	Weilheim	N/A	N/A	DE
Iwanow; Svetoslav X.	Sofia	N/A	N/A	BG

APPL-NO: 08/ 446777

DATE FILED: May 26, 1995

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
EP	92810924	November 27, 1992

PCT-DATA:

APPL-NO: PCT/EP93/03194
DATE-FILED: November 15, 1994
PUB-NO: WO94/12646
PUB-DATE: Jun 9, 1994
371-DATE: May 26, 1995
102(E)-DATE: May 26, 1995

US-CL-CURRENT: 435/193; 435/254.2 ; 435/320.1 ; 536/23.2 ; 536/23.4

ABSTRACT:

The invention concerns proteins having glycosyltransferase activity, recombinant DNA molecules encoding proteins having glycosyltransferase activity, hybrid vectors comprising such recombinant DNA molecules, transformed hosts suitable for the multiplication and/or expression of the recombinant DNA molecules, and processes for the preparation of the proteins, DNA molecules and hosts.

9 Claims, 0 Drawing figures

Exemplary Claim Number: 1

----- KWIC -----

Brief Summary Text - BSTX:

A membrane-bound glycosyltransferase is an enzyme which cannot be secreted by the cell it is produced by, e.g. a full-length enzyme. Examples of membrane-bound glycosyltransferases are the following galactosyltransferases: UDP-Galactose: .beta.-galactoside .alpha.(1-3)-galactosyltransferase (EC 2.4.1.151) which uses galactose as acceptor substrate forming an .alpha.(1-3)-linkage and UDP-Galactose: .alpha.-N-acetylglucosamine .alpha.(1-4)-galactosyltransferase (EC 2.4.1.22) which transfers galactose to N-acetylglucosamine (GlcNAc) forming a .alpha.(1-4)-linkage. In the presence of .alpha.-lactalbumin, said .beta.(1-4)-galactosyltransferase also accepts glucose as an acceptor substrate, thus catalysing the synthesis of lactose. An example of a membrane-bound sialyltransferase is the CMP-NeuAc: .beta.-galactoside .alpha.(2-6)-sialyltransferase (EC 2.4.99.1) which forms the NeuAc- .alpha.(2-6)Gal- .beta.(1-4)GlcNAc-sequence common to many N-linked carbohydrate groups.

	L #	Hits	Search Text	DBs	Time Stamp
1	L1	532	galactosyl adj transferase\$1 or galactosyltransferase\$1	USPAT; US-PGPUB	2003/01/03 14:49
2	L2	36	'3' adj2 1	USPAT; US-PGPUB	2003/01/03 15:11
3	L3	20	2 same (gene\$1 or sequence\$1)	USPAT; US-PGPUB	2003/01/03 15:12
4	L4	9	2 same (murine or mouse)	USPAT; US-PGPUB	2003/01/03 15:13
5	L5	20	3 or 4	USPAT; US-PGPUB	2003/01/03 14:51
6	L6	121	1,3 adj2 1	USPAT; US-PGPUB	2003/01/03 15:12
7	L7	90	6 same (gene\$1 or sequence\$1)	USPAT; US-PGPUB	2003/01/03 15:12
8	L8	50	6 same (murine or mouse)	USPAT; US-PGPUB	2003/01/03 15:13
9	L9	102	7 or 8	USPAT; US-PGPUB	2003/01/03 15:13

PGPUB-DOCUMENT-NUMBER: 20030003531

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030003531 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: January 2, 2003

US-CL-CURRENT: 435/69.1,435/183 ,435/320.1 ,435/325 ,435/6 ,530/350 ,536/23.2

APPL-NO: 09/ 989734

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989734 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
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US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020198149

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020198149 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: December 26, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 993687

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09993687 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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non-provisional-of-provisional 60088738 19980610 US
non-provisional-of-provisional 60088742 19980610 US

non-provisional-of-provisional 60088810 19980610 US
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 non-provisional-of-provisional 60089514 19980616 US
 non-provisional-of-provisional 60089532 19980617 US
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 non-provisional-of-provisional 60089907 19980618 US
 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020198148

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020198148 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: December 26, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 990436

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09990436 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
non-provisional-of-provisional 60087106 19980528 US
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non-provisional-of-provisional 60087609 19980602 US
non-provisional-of-provisional 60087759 19980602 US
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non-provisional-of-provisional 60088026 19980604 US
non-provisional-of-provisional 60088028 19980604 US
non-provisional-of-provisional 60088029 19980604 US
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non-provisional-of-provisional 60088326 19980604 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020197674

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020197674 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: December 26, 2002

US-CL-CURRENT: 435/69.1,435/183 ,435/320.1 ,435/325 ,435/6 ,530/350 ,536/23.1

APPL-NO: 09/ 989730

DATE FILED: November 20, 2001

RELATED-US-APPL-DATA:

child 09989730 A1 20011120 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
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non-provisional-of-provisional 60083322 19980428 US
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 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020197615

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020197615 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: December 26, 2002

US-CL-CURRENT: 435/6,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 991181

DATE FILED: November 16, 2001

RELATED-US-APPL-DATA:

child 09991181 A1 20011116 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
non-provisional-of-provisional 60087106 19980528 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020193300

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020193300 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: December 19, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 990444

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09990444 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020193299

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020193299 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: December 19, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 989735

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989735 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020177164

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177164 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: November 28, 2002

US-CL-CURRENT: 435/7.1,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,530/388.1 ,536/23.2

APPL-NO: 09/ 989293

DATE FILED: November 20, 2001

RELATED-US-APPL-DATA:

child 09989293 A1 20011120 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
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 non-provisional-of-provisional 60089907 19980618 US
 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020168371

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020168371 A1

TITLE: Process for reducing antibody response against xenografts

PUBLICATION-DATE: November 14, 2002

US-CL-CURRENT: 424/178.1,514/54 ,514/8

APPL-NO: 09/ 861056

DATE FILED: May 18, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60205046 20000518 US

[0001] This application claims priority of U.S. Provisional Application 60/205,046, filed May 18, 2000, the disclosure of which is hereby incorporated by reference in its entirety.

PGPUB-DOCUMENT-NUMBER: 20020160384

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020160384 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: October 31, 2002

US-CL-CURRENT: 435/6,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,536/23.1

APPL-NO: 09/ 992598

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09992598 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
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non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

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US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020152488

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020152488 A1

TITLE: Genetically engineered animals for use as organ donors

PUBLICATION-DATE: October 17, 2002

US-CL-CURRENT: 800/14,424/93.21 ,435/325

APPL-NO: 09/ 946034

DATE FILED: September 4, 2001

RELATED-US-APPL-DATA:

child 09946034 A1 20010904 parent continuation-of 08379040 19950127 US PATENTED
child 08379040 19950127 US parent continuation-of 08049817 19930420 US
ABANDONED

PGPUB-DOCUMENT-NUMBER: 20020150968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150968 A1

TITLE: Glycoconjugate and sugar nucleotide synthesis using solid supports

PUBLICATION-DATE: October 17, 2002

US-CL-CURRENT: 435/53,435/175 ,435/68.1 ,435/96

APPL-NO: 09/ 757846

DATE FILED: January 10, 2001

PGPUB-DOCUMENT-NUMBER: 20020142961

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020142961 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: October 3, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 989721

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989721 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
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non-provisional-of-provisional 60066770 19971124 US
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 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020142426

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020142426 A1

TITLE: 33945, a human glycosyltransferase family member and uses therefor

PUBLICATION-DATE: October 3, 2002

US-CL-CURRENT: 435/193,435/320.1 ,435/325 ,435/69.1 ,536/23.2

APPL-NO: 10/ 074527

DATE FILED: February 12, 2002

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60269202 20010215 US

CROSS-REFERENCES TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application No. 60/269,202, filed Feb. 15, 2001, the contents of which are incorporated herein by this reference.

PGPUB-DOCUMENT-NUMBER: 20020142397

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020142397 A1

TITLE: Methods for altering cell fate

PUBLICATION-DATE: October 3, 2002

US-CL-CURRENT: 435/69.5,435/320.1 ,435/325 ,435/455

APPL-NO: 10/ 015824

DATE FILED: December 10, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60258152 20001222 US

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims the benefit of the filing date of U.S. provisional application No. 60/258,152, filed Dec. 22, 2000.

PGPUB-DOCUMENT-NUMBER: 20020137890

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137890 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: September 26, 2002

US-CL-CURRENT: 530/350,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,536/23.1

APPL-NO: 09/ 990456

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09990456 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
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 non-provisional-of-provisional 60089600 19980617 US
 non-provisional-of-provisional 60089653 19980617 US
 non-provisional-of-provisional 60089801 19980618 US
 non-provisional-of-provisional 60089907 19980618 US
 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020137075

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137075 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: September 26, 2002

US-CL-CURRENT: 435/6,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,536/23.1

APPL-NO: 09/ 993604

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09993604 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
non-provisional-of-provisional 60087106 19980528 US
non-provisional-of-provisional 60087607 19980602 US
non-provisional-of-provisional 60087609 19980602 US
non-provisional-of-provisional 60087759 19980602 US
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non-provisional-of-provisional 60088026 19980604 US
non-provisional-of-provisional 60088028 19980604 US
non-provisional-of-provisional 60088029 19980604 US
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non-provisional-of-provisional 60088033 19980604 US
non-provisional-of-provisional 60088326 19980604 US
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 non-provisional-of-provisional 60089514 19980616 US
 non-provisional-of-provisional 60089532 19980617 US
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 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020132320

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020132320 A1

TITLE: Glycoconjugate synthesis using a pathway-engineered organism

PUBLICATION-DATE: September 19, 2002

US-CL-CURRENT: 435/193,435/101 ,435/200 ,435/320.1 ,435/325

APPL-NO: 09/ 758525

DATE FILED: January 10, 2001

PGPUB-DOCUMENT-NUMBER: 20020132253

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020132253 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: September 19, 2002

US-CL-CURRENT: 435/6,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,536/23.1

APPL-NO: 09/ 991163

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09991163 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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non-provisional-of-provisional 60088029 19980604 US
non-provisional-of-provisional 60088030 19980604 US
non-provisional-of-provisional 60088033 19980604 US
non-provisional-of-provisional 60088326 19980604 US
non-provisional-of-provisional 60088167 19980605 US
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non-provisional-of-provisional 60088810 19980610 US

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 non-provisional-of-provisional 60089653 19980617 US
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 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020132252

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020132252 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: September 19, 2002

US-CL-CURRENT: 435/6,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,536/23.1

APPL-NO: 09/ 990442

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09990442 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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 non-provisional-of-provisional 60089653 19980617 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
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US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020128221

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128221 A1

TITLE: Glycosyltransferase vectors for treating cancer

PUBLICATION-DATE: September 12, 2002

US-CL-CURRENT: 514/44,435/193 ,435/320.1 ,435/366 ,435/69.1 ,536/23.2

APPL-NO: 09/ 994427

DATE FILED: November 26, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60253395 20001127 US

REFERENCE TO RELATED APPLICATION

[0001] This application claims priority to U.S. patent application Ser. No. 60/253,395; filed Nov. 27, 2000, pending. The priority application is hereby incorporated herein by reference in its entirety.

PGPUB-DOCUMENT-NUMBER: 20020127719

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020127719 A1

TITLE: Xenograft heart valves

PUBLICATION-DATE: September 12, 2002

US-CL-CURRENT: 435/378,424/423 ,435/380

APPL-NO: 10/ 139499

DATE FILED: May 6, 2002

RELATED-US-APPL-DATA:

child 10139499 A1 20020506 parent division-of 09585509 20000601 US GRANTED
parent-patent 6383732 US

PGPUB-DOCUMENT-NUMBER: 20020127576

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020127576 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: September 12, 2002

US-CL-CURRENT: 435/6,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,536/23.1

APPL-NO: 09/ 991073

DATE FILED: November 14, 2001

RELATED-US-APPL-DATA:

child 09991073 A1 20011114 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
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non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
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US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020123475

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123475 A1

TITLE: 32626, a novel human UDP-glycosyltransferase and uses thereof

PUBLICATION-DATE: September 5, 2002

US-CL-CURRENT: 514/44,435/193 ,435/320.1 ,435/325 ,435/69.1 ,536/23.2

APPL-NO: 09/ 895728

DATE FILED: June 29, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60215749 20000630 US

[0001] This application claims priority on U.S. application Ser. No. 60/215,749 filed Jun. 30, 2000, which is relied on and incorporated herein by reference in its entirety.

PGPUB-DOCUMENT-NUMBER: 20020123463

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123463 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: September 5, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 989732

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989732 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
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non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	December 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020119517

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119517 A1

TITLE: Leptin induced genes

PUBLICATION-DATE: August 29, 2002

US-CL-CURRENT: 435/69.1,435/320.1 ,435/325 ,530/350 ,536/23.5

APPL-NO: 09/ 804006

DATE FILED: March 12, 2001

RELATED-US-APPL-DATA:

child 09804006 A1 20010312 parent continuation-of 09292228 19990415 US
ABANDONED child 09292228 19990415 US parent continuation-in-part-of 09195896
19981119 US ABANDONED child 09195896 19981119 US parent continuation-in-part-of
09150857 19980910 US PENDING non-provisional-of-provisional 60106378 19981029
US

PGPUB-DOCUMENT-NUMBER: 20020114787

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020114787 A1

TITLE: Tolerance to natural antibody antigens

PUBLICATION-DATE: August 22, 2002

US-CL-CURRENT: 424/93.21,435/325

APPL-NO: 09/ 906387

DATE FILED: July 16, 2001

RELATED-US-APPL-DATA:

child 09906387 A1 20010716 parent continuation-in-part-of 09127027 19980730 US
ABANDONED child 09127027 19980730 US parent continuation-in-part-of 08796663
19970205 US ABANDONED

[0001] This application is a continuation-in-part of U.S. application Ser.
No. 08/796,663 filed on Feb. 5, 1997, now pending, and of PCT/US98/02141 filed
Feb. 5, 1998, pending; both of which are incorporated herein by reference.

[0002] The invention relates to the induction of tolerance in graft recipients,
particularly xenograft recipients.

PGPUB-DOCUMENT-NUMBER: 20020103125

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020103125 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: August 1, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 989731

DATE FILED: November 20, 2001

RELATED-US-APPL-DATA:

child 09989731 A1 20011120 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
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US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020102688

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020102688 A1

TITLE: Methods and products for the synthesis of oligosaccharide structures on glycoproteins, glycolipids, or as free molecules, and for the isolation of cloned genetic sequences that determine these structures

PUBLICATION-DATE: August 1, 2002

US-CL-CURRENT: 435/193,435/320.1 ,536/23.2

APPL-NO: 09/ 863475

DATE FILED: May 24, 2001

RELATED-US-APPL-DATA:

child 09863475 A1 20010524 parent continuation-of 08823489 19970325 US
ABANDONED child 08823489 19970325 US parent division-of 08696731 19960814 US
PATENTED child 08696731 19960814 US parent division-of 08393246 19950223 US
PATENTED child 08393246 19950223 US parent continuation-of 08220433 19940330 US
ABANDONED child 08220433 19940330 US parent division-of 07914281 19920720 US
PATENTED child 07914281 19920720 US parent continuation-in-part-of 07715900
19910619 US ABANDONED child 07715900 19910619 US parent continuation-in-part-of
07627621 19901212 US ABANDONED child 07627621 19901212 US parent
continuation-in-part-of 07479858 19900214 US ABANDONED

BACKGROUND OF THE INVENTION

[0001] This application is a continuation-in-part of U.S. patent application Ser. No. 07/715,900, filed Jun. 19, 1991, which is a continuation-in-part of U.S. patent application Ser. No. 07/627,621, filed Dec. 12, 1990, now abandoned, which was a continuation-in-part of U.S. patent application Ser. No. 07/479,858, filed Feb. 14, 1990, now abandoned.

PGPUB-DOCUMENT-NUMBER: 20020098564

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098564 A1

TITLE: Human beta-1,3-galactosyltransferase

PUBLICATION-DATE: July 25, 2002

US-CL-CURRENT: 435/193,435/320.1 ,435/325 ,435/69.1 ,536/23.2

APPL-NO: 10/ 021758

DATE FILED: October 22, 2001

RELATED-US-APPL-DATA:

child 10021758 A1 20011022 parent division-of 09482180 20000112 US PATENTED
non-provisional-of-provisional 60115721 19990112 US

[0001] REFERENCE TO RELATED APPLICATIONS [0002] This application is related to
Provisional Application 60/115,721 filed on Jan. 12, 1999. Under 35 U.S.C.
.sctn. 119(e)(1), this application claims benefit of said Provisional
Application.

PGPUB-DOCUMENT-NUMBER: 20020087211

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020087211 A1

TITLE: Anterior cruciate ligament xenografts

PUBLICATION-DATE: July 4, 2002

US-CL-CURRENT: 623/13.17,623/915 ,8/94.11

APPL-NO: 10/ 062341

DATE FILED: February 1, 2002

RELATED-US-APPL-DATA:

child 10062341 A1 20020201 parent continuation-of 09824327 20010402 US
ABANDONED child 09824327 20010402 US parent continuation-of 09036087 19980306
US GRANTED parent-patent 6210440 US child 09036087 19980306 US parent
continuation-in-part-of 08529199 19950915 US GRANTED parent-patent 5902338 US

RELATED APPLICATION

[0001] This application is a continuation of U.S. Ser. No. 09/824,327, filed Apr. 2, 2001, which is a continuation of U.S. Ser. No. 08/529,199, filed Mar. 6, 1998, now U.S. Pat. No. 6,210,440, which is a continuation-in-part of U.S. Ser. No. 08/529,199, filed Dec. 1, 1997, now U.S. Pat. No. 5,902,338, which is a Continued Prosecution Application (CPA) of U.S. Ser. No. 08/529,199, filed Sep. 15, 1995.

PGPUB-DOCUMENT-NUMBER: 20020073439

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020073439 A1

TITLE: Cloned ungulate embryos and animals, use of cells, tissues and organs thereof for transplantation therapies including Parkinson's disease

PUBLICATION-DATE: June 13, 2002

US-CL-CURRENT: 800/8,800/14 ,800/15 ,800/16 ,800/17 ,800/18 ,800/24

APPL-NO: 09/ 534500

DATE FILED: March 24, 2000

CONTINUED PROSECUTION APPLICATION: This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).

RELATED-US-APPL-DATA:

child 09534500 A1 20000324 parent division-of 09066652 19980427 US PENDING
child 09066652 19980427 US parent continuation-in-part-of 09004606 19980108 US
PATENTED child 09004606 19980108 US parent continuation-in-part-of 08888057
19970703 US PATENTED child 08888057 19970703 US parent continuation-in-part-of
08781752 19970110 US PATENTED

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of application Ser. No. 09/004,606, filed Jan. 8, 1998, which is a continuation-in-part of Ser. No. 08/888,057 which is a continuation-in-part of Ser. No. 08/781,752, the contents of which are hereby incorporated by reference.

PGPUB-DOCUMENT-NUMBER: 20020072497

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072497 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: June 13, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 989727

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989727 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
non-provisional-of-provisional 60087106 19980528 US
non-provisional-of-provisional 60087607 19980602 US
non-provisional-of-provisional 60087609 19980602 US
non-provisional-of-provisional 60087759 19980602 US
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 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020072496

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072496 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: June 13, 2002

US-CL-CURRENT: 514/12,435/183 ,435/320.1 ,435/325 ,435/6 ,435/69.1 ,530/350 ,536/23.2

APPL-NO: 09/ 989279

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989279 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
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 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000

US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000
US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020072092

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072092 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: June 13, 2002

US-CL-CURRENT: 435/69.1,435/183 ,435/320.1 ,435/325 ,435/6 ,530/350 ,536/23.1

APPL-NO: 09/ 989723

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989723 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
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non-provisional-of-provisional 60088326 19980604 US
non-provisional-of-provisional 60088167 19980605 US
non-provisional-of-provisional 60088202 19980605 US
non-provisional-of-provisional 60088212 19980605 US
non-provisional-of-provisional 60088217 19980605 US
non-provisional-of-provisional 60088655 19980609 US
non-provisional-of-provisional 60088734 19980610 US
non-provisional-of-provisional 60088738 19980610 US
non-provisional-of-provisional 60088742 19980610 US
non-provisional-of-provisional 60088810 19980610 US

non-provisional-of-provisional 60088824 19980610 US
 non-provisional-of-provisional 60088826 19980610 US
 non-provisional-of-provisional 60088858 19980611 US
 non-provisional-of-provisional 60088861 19980611 US
 non-provisional-of-provisional 60088876 19980611 US
 non-provisional-of-provisional 60089105 19980612 US
 non-provisional-of-provisional 60089440 19980616 US
 non-provisional-of-provisional 60089512 19980616 US
 non-provisional-of-provisional 60089514 19980616 US
 non-provisional-of-provisional 60089532 19980617 US
 non-provisional-of-provisional 60089538 19980617 US
 non-provisional-of-provisional 60089598 19980617 US
 non-provisional-of-provisional 60089599 19980617 US
 non-provisional-of-provisional 60089600 19980617 US
 non-provisional-of-provisional 60089653 19980617 US
 non-provisional-of-provisional 60089801 19980618 US
 non-provisional-of-provisional 60089907 19980618 US
 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020072067

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072067 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: June 13, 2002

US-CL-CURRENT: 435/6,435/183 ,435/320.1 ,435/325 ,435/69.1 ,530/350 ,536/23.1

APPL-NO: 09/ 989722

DATE FILED: November 19, 2001

RELATED-US-APPL-DATA:

child 09989722 A1 20011119 parent continuation-of 09941992 20010828 US PENDING
non-provisional-of-provisional 60049787 19970616 US
non-provisional-of-provisional 60062250 19971017 US
non-provisional-of-provisional 60065186 19971112 US
non-provisional-of-provisional 60065311 19971113 US
non-provisional-of-provisional 60066770 19971124 US
non-provisional-of-provisional 60075945 19980225 US
non-provisional-of-provisional 60078910 19980320 US
non-provisional-of-provisional 60083322 19980428 US
non-provisional-of-provisional 60084600 19980507 US
non-provisional-of-provisional 60087106 19980528 US
non-provisional-of-provisional 60087607 19980602 US
non-provisional-of-provisional 60087609 19980602 US
non-provisional-of-provisional 60087759 19980602 US
non-provisional-of-provisional 60087827 19980603 US
non-provisional-of-provisional 60088021 19980604 US
non-provisional-of-provisional 60088025 19980604 US
non-provisional-of-provisional 60088026 19980604 US
non-provisional-of-provisional 60088028 19980604 US
non-provisional-of-provisional 60088029 19980604 US
non-provisional-of-provisional 60088030 19980604 US
non-provisional-of-provisional 60088033 19980604 US
non-provisional-of-provisional 60088326 19980604 US
non-provisional-of-provisional 60088167 19980605 US
non-provisional-of-provisional 60088202 19980605 US
non-provisional-of-provisional 60088212 19980605 US
non-provisional-of-provisional 60088217 19980605 US
non-provisional-of-provisional 60088655 19980609 US
non-provisional-of-provisional 60088734 19980610 US
non-provisional-of-provisional 60088738 19980610 US
non-provisional-of-provisional 60088742 19980610 US
non-provisional-of-provisional 60088810 19980610 US

non-provisional-of-provisional 60088824 19980610 US
 non-provisional-of-provisional 60088826 19980610 US
 non-provisional-of-provisional 60088858 19980611 US
 non-provisional-of-provisional 60088861 19980611 US
 non-provisional-of-provisional 60088876 19980611 US
 non-provisional-of-provisional 60089105 19980612 US
 non-provisional-of-provisional 60089440 19980616 US
 non-provisional-of-provisional 60089512 19980616 US
 non-provisional-of-provisional 60089514 19980616 US
 non-provisional-of-provisional 60089532 19980617 US
 non-provisional-of-provisional 60089538 19980617 US
 non-provisional-of-provisional 60089598 19980617 US
 non-provisional-of-provisional 60089599 19980617 US
 non-provisional-of-provisional 60089600 19980617 US
 non-provisional-of-provisional 60089653 19980617 US
 non-provisional-of-provisional 60089801 19980618 US
 non-provisional-of-provisional 60089907 19980618 US
 non-provisional-of-provisional 60089908 19980618 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
US	PCT/US97/20069	1997US-PCT/US97/20069	November 5, 1997
US	PCT/US98/19330	1998US-PCT/US98/19330	September 16, 1998
US	PCT/US98/19437	1998US-PCT/US98/19437	September 17, 1998
US	PCT/US98/21141	1998US-PCT/US98/21141	October 7, 1998
US	PCT/US98/25108	1998US-PCT/US98/25108	December 1, 1998
US	PCT/US99/00106	1999US-PCT/US99/00106	January 5, 1999
US	PCT/US99/05028	1999US-PCT/US99/05028	March 8, 1999
US	PCT/US99/12252	1999US-PCT/US99/12252	June 2, 1999
US	PCT/US99/21090	1999US-PCT/US99/21090	September 15, 1999
US	PCT/US99/21547	1999US-PCT/US99/21547	September 15, 1999
US	PCT/US99/28313	1999US-PCT/US99/28313	November 30, 1999
US	PCT/US99/28301	1999US-PCT/US99/28301	December 1, 1999
US	PCT/US99/28634	1999US-PCT/US99/28634	December 1, 1999
US	PCT/US99/30095	1999US-PCT/US99/30095	December 16, 1999
US	PCT/US99/30911	1999US-PCT/US99/30911	February 20, 1999
US	PCT/US00/00219	2000US-PCT/US00/00219	January 5, 2000
US	PCT/US00/00376	2000US-PCT/US00/00376	January 6, 2000
US	PCT/US00/03565	2000US-PCT/US00/03565	February 11, 2000
US	PCT/US00/04341	2000US-PCT/US00/04341	February 18, 2000
US	PCT/US00/04414	2000US-PCT/US00/04414	February 22, 2000
US	PCT/US00/04914	2000US-PCT/US00/04914	February 24, 2000
US	PCT/US00/05004	2000US-PCT/US00/05004	February 24, 2000
US	PCT/US00/05841	2000US-PCT/US00/05841	March 2, 2000
US	PCT/US00/06319	2000US-PCT/US00/06319	March 10, 2000
US	PCT/US00/06884	2000US-PCT/US00/06884	March 15, 2000
US	PCT/US00/07377	2000US-PCT/US00/07377	March 20, 2000
US	PCT/US00/08439	2000US-PCT/US00/08439	March 30, 2000
US	PCT/US00/13358	2000US-PCT/US00/13358	May 15, 2000
US	PCT/US00/14042	2000US-PCT/US00/14042	May 22, 2000
US	PCT/US00/15264	2000US-PCT/US00/15264	June 2, 2000
US	PCT/US00/13705	2000US-PCT/US00/13705	May 17, 2000
US	PCT/US00/14941	2000US-PCT/US00/14941	May 30, 2000

US	PCT/US00/20710	2000US-PCT/US00/20710	July 28, 2000
US	PCT/US00/22031	2000US-PCT/US00/22031	August 11, 2000
US	PCT/US00/23522	2000US-PCT/US00/23522	August 23, 2000
US	PCT/US00/23328	2000US-PCT/US00/23328	August 24, 2000
US	PCT/US00/30952	2000US-PCT/US00/30952	November 8, 2000
US	PCT/US00/32678	2000US-PCT/US00/32678	December 1, 2000
US	PCT/US01/06520	2001US-PCT/US01/06520	February 28, 2001
US	PCT/US01/17800	2001US-PCT/US01/17800	June 1, 2001
US	PCT/US01/19692	2001US-PCT/US01/19692	June 20, 2001
US	PCT/US01/21066	2001US-PCT/US01/21066	June 29, 2001
US	PCT/US01/21735	2001US-PCT/US01/21735	July 9, 2001

PGPUB-DOCUMENT-NUMBER: 20020045247

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020045247 A1

TITLE: METHODS FOR THE PREPARATION OF RETROVIRAL PARTICLES AND CELL
LINES
DEFICIENT IN THE ALPHA-GALACTOSYL EPIOTOPE

PUBLICATION-DATE: April 18, 2002

US-CL-CURRENT: 435/320.1

APPL-NO: 08/ 776161

DATE FILED: May 8, 1997

CONTINUED PROSECUTION APPLICATION: This is a publication of a continued
prosecution application (CPA) filed under 37 CFR 1.53(d).

PCT-DATA:

APPL-NO: PCT/US95/08920

DATE-FILED: Jul 14, 1995

PUB-NO:

PUB-DATE:

371-DATE:

102(E)-DATE:

PGPUB-DOCUMENT-NUMBER: 20020042369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042369 A1

TITLE: Campylobacter glycosyltransferases for biosynthesis of gangliosides and ganglioside mimics

PUBLICATION-DATE: April 11, 2002

US-CL-CURRENT: 514/12,435/193 ,435/320.1 ,435/325 ,536/23.2

APPL-NO: 09/ 816028

DATE FILED: March 21, 2001

RELATED-US-APPL-DATA:

child 09816028 A1 20010321 parent continuation-in-part-of 09495406 20000131 US
PENDING non-provisional-of-provisional 60118213 19990201 US

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims benefit of U.S. Provisional Application No. 60/118,213, which was filed on Feb. 1, 1999, and is a continuation-in-part of U.S. Application Ser. No. 09/495,406 filed Jan. 31, 2000, both of which are incorporated herein by reference for all purposes.

PGPUB-DOCUMENT-NUMBER: 20020031494

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020031494 A1

TITLE: NUCLEIC ACIDS FOR REDUCING CARBOHYDRATE EPITOPES

PUBLICATION-DATE: March 14, 2002

US-CL-CURRENT: 424/93.2,424/93.21 ,435/320.1 ,435/325 ,435/455 ,514/44
,536/23.2

APPL-NO: 09/ 254077

DATE FILED: June 11, 1999

CONTINUED PROSECUTION APPLICATION: This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
AU	P0 1823	1996AU-P0 1823	August 23, 1996

PCT-DATA:

APPL-NO: PCT/AU97/00540

DATE-FILED: Aug 22, 1997

PUB-NO:

PUB-DATE:

371-DATE:

102(E)-DATE:

PGPUB-DOCUMENT-NUMBER: 20020013957

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020013957 A1

TITLE: Method of cloning porcine animals

PUBLICATION-DATE: January 31, 2002

US-CL-CURRENT: 800/24,800/17

APPL-NO: 09/ 753323

DATE FILED: December 28, 2000

RELATED-US-APPL-DATA:

child 09753323 A1 20001228 parent continuation-in-part-of 09199138 19981124 US
GRANTED parent-patent 6258998 US non-provisional-of-provisional 60221434
20000728 US

DESCRIPTION

[0001] This application is related to U.S. Pat. application Ser. No. 09/199,138, entitled "Method of Cloning Porcine Animals", filed on Nov. 24, 1998, and U.S. Provisional Pat. Application No. 60/221,434, filed Jul. 28, 2000, from each of which priority is claimed, and each of which is hereby incorporated by reference in its entirety, including all claims, figures, and tables.

PGPUB-DOCUMENT-NUMBER: 20020012660

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020012660 A1

TITLE: METHOD OF PREPARING A SOMATIC CELLS FOR NUCLEAR TRANSFER

PUBLICATION-DATE: January 31, 2002

US-CL-CURRENT: 424/93.21,435/455 ,800/14

APPL-NO: 09/ 475674

DATE FILED: December 30, 1999

CONTINUED PROSECUTION APPLICATION: This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60128544 19990409 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
GB	9905033.8	1999GB-9905033.8	March 4, 1999
GB	99 17023.5	1999GB-99 17023.5	August 20, 1999

PGPUB-DOCUMENT-NUMBER: 20020012655

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020012655 A1

TITLE: CLONED UNGULATE EMBRYOS AND ANIMALS, USE OF CELLS, TISSUES AND
ORGANS
THEREOF FOR TRANSPLANTATION THERAPIES INCLUDING PARKINSON'S DISEASE

PUBLICATION-DATE: January 31, 2002

US-CL-CURRENT: 424/93.2,424/93.21

APPL-NO: 09/ 066652

DATE FILED: April 27, 1998

CONTINUED PROSECUTION APPLICATION: This is a publication of a continued
prosecution application (CPA) filed under 37 CFR 1.53(d).

RELATED-US-APPL-DATA:

child 09066652 A1 19980427 parent continuation-in-part-of 09004606 19980108 US
GRANTED parent-patent 6215041 US child 09004606 19980108 US parent
continuation-in-part-of 08888057 19970703 US GRANTED parent-patent 6235969 US
child 08888057 19970703 US parent continuation-in-part-of 08781752 19970110 US
GRANTED parent-patent 5945577 US

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of application Ser. No.
09/004,606, filed Jan. 8, 1998, which is a continuation-in-part of Ser. No.
08/888,057 which is a continuation-in-part of Ser. No. 08/781,752, the
contents of which are hereby incorporated by reference.

PGPUB-DOCUMENT-NUMBER: 20020001831

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020001831 A1

TITLE: Low cost manufacture of oligosaccharides

PUBLICATION-DATE: January 3, 2002

US-CL-CURRENT: 435/101,435/84 ,536/53

APPL-NO: 09/ 757289

DATE FILED: January 8, 2001

RELATED-US-APPL-DATA:

child 09757289 A1 20010108 parent continuation-of 09442111 19991117 US PENDING
non-provisional-of-provisional 60109031 19981118 US
non-provisional-of-provisional 60109096 19981119 US

PGPUB-DOCUMENT-NUMBER: 20010055584

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010055584 A1

TITLE: IMPROVED NUCLEIC ACIDS ENCODING A CHIMERIC GLYCOSYLTRANSFERASE

PUBLICATION-DATE: December 27, 2001

US-CL-CURRENT: 424/93.2,424/93.21 ,435/320.1 ,435/325 ,435/455 ,514/44
,536/23.1 ,536/23.4

APPL-NO: 09/ 051034

DATE FILED: March 31, 1998

CONTINUED PROSECUTION APPLICATION: CPA

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
AU	PO1402	1996AU-PO1402	August 2, 1996

PCT-DATA:

APPL-NO: PCT/AU97/00492

DATE-FILED: Aug 1, 1997

PUB-NO:

PUB-DATE:

371-DATE:

102(E)-DATE:

PGPUB-DOCUMENT-NUMBER: 20010053354

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010053354 A1

TITLE: PORCINE CARDIOMYOCYTES AND THEIR USE IN TREATMENT OF INSUFFICIENT
CARDIAC FUNCTION

PUBLICATION-DATE: December 20, 2001

US-CL-CURRENT: 424/93.7,435/325

APPL-NO: 09/ 270145

DATE FILED: March 16, 1999

CONTINUED PROSECUTION APPLICATION: CPA

RELATED-US-APPL-DATA:

child 09270145 A1 19990316 parent continuation-of 08454989 19950530 US GRANTED
parent-patent 5919449 US

PGPUB-DOCUMENT-NUMBER: 20010051828

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010051828 A1

TITLE: Anterior cruciate ligament xenografts

PUBLICATION-DATE: December 13, 2001

US-CL-CURRENT: 623/13.17

APPL-NO: 09/ 824327

DATE FILED: April 2, 2001

RELATED-US-APPL-DATA:

child 09824327 A1 20010402 parent continuation-of 08529199 19950915 US GRANTED
parent-patent 5902338 US

RELATED APPLICATION

[0001] This application is a continuation of U.S. Ser. No. 08/529,199, filed Mar. 6, 1998, now U.S. Pat. No. 6,210,440, which is a continuation-in-part of U.S. Ser. No. 08/529,199, filed Dec. 1, 1997, now U.S. Pat. No. 5,902,338, which is a Continued Prosecution Application (CPA) of U.S. Ser. No. 08/529,199, filed Sep. 15, 1995.

PGPUB-DOCUMENT-NUMBER: 20010039667

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039667 A1

TITLE: Cloned ungulate embryos and animals, use of cells, tissues and organs thereof for transplantation therapies including parkinson's disease

PUBLICATION-DATE: November 8, 2001

US-CL-CURRENT: 800/15,424/93.21 ,435/325

APPL-NO: 09/ 845352

DATE FILED: May 1, 2001

RELATED-US-APPL-DATA:

child 09845352 A1 20010501 parent continuation-of 09066652 19980427 US PENDING
child 09066652 19980427 US parent continuation-in-part-of 09004606 19980108 US
GRANTED parent-patent 6215041 US child 09004606 19980108 US parent
continuation-in-part-of 08888057 19970703 US GRANTED parent-patent 6235969 US
child 08888057 19970703 US parent continuation-in-part-of 08781752 19970110 US
GRANTED parent-patent 5945577 US

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of Ser. No. 09/066,652, filed Apr. 27, 1998, which is a continuation-in-part of Ser. No. 09/004,606, filed Jan. 8, 1998, which is a continuation-in-part of Ser. No. 08/888,057 which is a continuation-in-part of Ser. No. 08/781,752, the contents of which are hereby incorporated by reference.

PGPUB-DOCUMENT-NUMBER: 20010039459

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039459 A1

TITLE: Proteoglycan-reduced soft tissue xenografts

PUBLICATION-DATE: November 8, 2001

US-CL-CURRENT: 623/23.72,623/915

APPL-NO: 09/ 873975

DATE FILED: June 4, 2001

RELATED-US-APPL-DATA:

child 09873975 A1 20010604 parent division-of 09248336 19990211 US GRANTED
parent-patent 6267786 US

CLAIM OF PRIORITY

[0001] This application is a divisional application of U.S. Ser. No.
09/248,336, filed Feb. 11, 1999.

PGPUB-DOCUMENT-NUMBER: 20010039335

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039335 A1

TITLE: Secreted proteins and polynucleotides encoding them

PUBLICATION-DATE: November 8, 2001

US-CL-CURRENT: 536/23.5,435/325 ,435/69.5 ,530/351

APPL-NO: 09/ 729674

DATE FILED: December 4, 2000

RELATED-US-APPL-DATA:

child 09729674 A1 20001204 parent continuation-of 09539330 20000330 US PENDING
child 09539330 20000330 US parent continuation-in-part-of 09197886 19981123 US
ABANDONED non-provisional-of-provisional 60126425 19970410 US
non-provisional-of-provisional 60067454 19971204 US
non-provisional-of-provisional 60068379 19971220 US
non-provisional-of-provisional 60070346 19980102 US
non-provisional-of-provisional 60070643 19980107 US
non-provisional-of-provisional 60070755 19980108 US
non-provisional-of-provisional 60071304 19980113 US
non-provisional-of-provisional 60072134 19980122 US
non-provisional-of-provisional 60073095 19980130 US
non-provisional-of-provisional 60075038 19980218 US

[0001] This application is a continuation-in-part of the following applications: [0002] (1) Ser. No. 09/197,886 (GI 6055A), filed Nov. 23, 1998; which is a continuation-in-part of provisional application Ser. No. 60/126,425 (GI 6055), filed Nov. 26, 1997, now abandoned; [0003] (2) Ser. No. 09/203,106 (GI 6056A), filed Nov. 30, 1998; which is a continuation-in-part of provisional application Ser. No. 60/067,454 (GI 6056), filed Dec. 4, 1997, now abandoned; [0004] (3) Ser. No. 09/212,843 (GI 6057A), filed Dec. 16, 1998; which is a continuation-in-part of provisional application Ser. No. 60/068,379 (GI 6057), filed Dec. 20, 1997, now abandoned; [0005] (4) Ser. No. 09/227,653 (GI 6058A), filed Dec. 30, 1998; which is a continuation-in-part of provisional application Ser. No. 60/070,346 (GI 6058), filed Jan. 2, 1998, now abandoned; [0006] (5) Ser. No. 09/225,049 (GI 6059A), filed Jan. 4, 1999; which is a continuation-in-part of provisional application Ser. No. 60/070,643 (GI 6059), filed Jan. 7, 1998, now abandoned; [0007] (6) Ser. No. 09/225,585 (GI 6060A), filed Jan. 6, 1999; which is a continuation-in-part of provisional application Ser. No. 60/070,755 (GI 6060), filed Jan. 8, 1998, now abandoned; [0008] (7) Ser. No. 09/227,462 (GI 6061A), filed Jan. 8, 1999; which is a continuation-in-part of provisional application Ser. No. 60/071,304 (GI 6061), filed Jan. 13, 1998, now abandoned; [0009] (8) Ser. No. 09/235,609 (GI 6062A), filed Jan. 20, 1999; which is a continuation-in-part of provisional application

Ser. No. 60/072,134 (GI 6062), filed Jan. 22, 1998, now abandoned; [0010] (9)
Ser. No. 09/237,847 (GI 6063A), filed Jan. 27, 1999; which is a
continuation-in-part of provisional application Ser. No. 60/073,095 (GI 6063),
filed Jan. 30, 1998, now abandoned; [0011] (10) Ser. No. 09/251,600 (GI
6064A), filed Feb. 17, 1999; which is a continuation-in-part of provisional
application Ser. No. 60/075,038 (GI 6064), filed Feb. 18, 1998, now abandoned;
[0012] all of which are incorporated by reference herein.

PGPUB-DOCUMENT-NUMBER: 20010034028

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010034028 A1

TITLE: Methods and compositions for elucidating relative protein expression levels in cells

PUBLICATION-DATE: October 25, 2001

US-CL-CURRENT: 435/6,435/455 ,536/23.2

APPL-NO: 09/ 811842

DATE FILED: March 19, 2001

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60190678 20000320 US

non-provisional-of-provisional 60198722 20000420 US

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims benefit under 35 U.S.C. .sctn. 119(e) of provisional application No. 60/190,678 filed Mar. 20, 2000.

PGPUB-DOCUMENT-NUMBER: 20010031256

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010031256 A1

TITLE: Neural retinal cells and retinal pigment epithelium cells and their use
in treatment of retinal disorders

PUBLICATION-DATE: October 18, 2001

US-CL-CURRENT: 424/93.7,424/140.1

APPL-NO: 09/ 879300

DATE FILED: June 12, 2001

RELATED-US-APPL-DATA:

child 09879300 A1 20010612 parent division-of 09139812 19980825 US GRANTED
parent-patent 6284245 US

PGPUB-DOCUMENT-NUMBER: 20010024808

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010024808 A1

TITLE: Leptin induced genes

PUBLICATION-DATE: September 27, 2001

US-CL-CURRENT: 435/69.1,435/325 ,435/6 ,435/7.2 ,530/350 ,536/23.5

APPL-NO: 09/ 804357

DATE FILED: March 12, 2001

RELATED-US-APPL-DATA:

child 09804357 A1 20010312 parent continuation-of 09195896 19981119 US
ABANDONED child 09195896 19981119 US parent continuation-in-part-of 09150857
19980910 US PENDING non-provisional-of-provisional 60106378 19981029 US

US-PAT-NO: 6491912

DOCUMENT-IDENTIFIER: US 6491912 B2

TITLE: Porcine cardiomyocytes and their use in treatment of insufficient cardiac function

DATE-ISSUED: December 10, 2002

US-CL-CURRENT: 424/93.7; 435/325

APPL-NO: 09/ 270145

DATE FILED: March 16, 1999

PARENT-CASE:

RELATED APPLICATIONS This application is a continuation of U.S. Ser. No. 08/454,989, filed on May 30, 1995, now issued as U.S. Pat. No. 5,919,449, which is incorporated herein in its entirety by this reference.

US-PAT-NO: 6485976

DOCUMENT-IDENTIFIER: US 6485976 B1

TITLE: Use of adeno-associated virus (AAV) to deliver genes

DATE-ISSUED: November 26, 2002

US-CL-CURRENT: 435/455; 435/366 ; 435/378 ; 435/6 ; 435/91.1 ; 536/23.1

APPL-NO: 09/ 559915

DATE FILED: April 28, 2000

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is related to pending prior provisional application Ser. No. 60/132,123, filed Apr. 30, 1999.

US-PAT-NO: 6482937

DOCUMENT-IDENTIFIER: US 6482937 B1

TITLE: Porcine Oct-4 promoter

DATE-ISSUED: November 19, 2002

US-CL-CURRENT: 536/24.1; 536/23.1 ; 536/24.31

APPL-NO: 08/ 948113

DATE FILED: October 9, 1997

US-PAT-NO: 6475753
DOCUMENT-IDENTIFIER: US 6475753 B1

TITLE: 94 Human Secreted Proteins

DATE-ISSUED: November 5, 2002

US-CL-CURRENT: 435/69.1; 435/252.3 ; 435/320.1 ; 435/471 ; 435/69.4 ; 435/71.1
; 530/350 ; 536/23.5

APPL-NO: 09/ 461325

DATE FILED: December 14, 1999

PARENT-CASE:

This application is a continuation-in-part of, and claims benefit under 35 U.S.C. .sctn. 120 of copending International Application No: PCT/US99/13418 filed Jun. 15, 1999, which is hereby incorporated by reference, which claims benefit under 35 U.S.C. .sctn. 119(e) based on U.S. Provisional Applications: Appln Serial No. Filing Date 60/089,507 16 June 1998 60/089,508 16 June 1998 60/089,509 16 June 1998 60/089,510 16 June 1998 60/090,112 2 June 1998 60/099,113 22 June 1998

US-PAT-NO: 6472511

DOCUMENT-IDENTIFIER: US 6472511 B1

TITLE: Stimulation of an immune response with antibodies labeled with the
.alpha.-galactosyl epitope

DATE-ISSUED: October 29, 2002

US-CL-CURRENT: 530/387.3; 424/133.1 ; 424/134.1 ; 530/350 ; 530/380 ; 530/385
; 530/387.1 ; 530/387.7 ; 530/388.1 ; 530/388.2 ; 530/388.4

APPL-NO: 09/ 599391

DATE FILED: June 23, 2000

PARENT-CASE:

This application is a divisional of application Ser. No. 09/020,299, filed on
Feb. 6, 1998, now U.S. Pat. No. 6,090,381; which is based on provisional
application 60/037,908 filed Feb. 11, 1997.

US-PAT-NO: 6461863

DOCUMENT-IDENTIFIER: US 6461863 B1

TITLE: Modifying insect cell glycosylation pathways with baculovirus expression vectors

DATE-ISSUED: October 8, 2002

US-CL-CURRENT: 435/320.1; 435/325 ; 435/348 ; 435/69.1 ; 435/70.1

APPL-NO: 09/ 242435

DATE FILED: November 29, 1999

PARENT-CASE:

This application claims priority to U.S. Provisional Application Ser. No. 60/024,078 filed Aug. 16, 1996.

PCT-DATA:

APPL-NO: PCT/US97/14428

DATE-FILED: August 15, 1997

PUB-NO: WO98/06835

PUB-DATE: Feb 19, 1998

371-DATE: Nov 29, 1999

102(E)-DATE: Nov 29, 1999

US-PAT-NO: 6455309

DOCUMENT-IDENTIFIER: US 6455309 B2

TITLE: Proteoglycan-reduced soft tissue xenografts

DATE-ISSUED: September 24, 2002

US-CL-CURRENT: 435/378; 623/23.72 ; 623/915

APPL-NO: 09/ 873975

DATE FILED: June 4, 2001

PARENT-CASE:

CLAIM OF PRIORITY This application is a divisional application of U.S. Ser. No. 09/248,336, filed Feb. 11, 1999, now U.S. Pat. No. 6,267,786.

US-PAT-NO: 6455037

DOCUMENT-IDENTIFIER: US 6455037 B1

TITLE: Cells expressing an .alpha.gala nucleic acid and methods of
xenotransplantation

DATE-ISSUED: September 24, 2002

US-CL-CURRENT: 424/93.21; 435/325 ; 435/354

APPL-NO: 08/ 742646

DATE FILED: November 1, 1996

US-PAT-NO: 6448083

DOCUMENT-IDENTIFIER: US 6448083 B1

TITLE: Receptor-mediated gene delivery using bacteriophage vectors

DATE-ISSUED: September 10, 2002

US-CL-CURRENT: 435/456; 435/320.1

APPL-NO: 09/ 258584

DATE FILED: February 26, 1999

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part application of PCT Application No. PCT/US98/17950, filed Aug. 28, 1998, which is a continuation-in-part application of and claims priority from U.S. application Ser. No. 08/920,396, filed Aug. 29, 1997, now issued as U.S. Pat. No. 6,054,312.

US-PAT-NO: 6413769

DOCUMENT-IDENTIFIER: US 6413769 B1

TITLE: .alpha.(1,3) galactosyltransferase negative porcine cells

DATE-ISSUED: July 2, 2002

US-CL-CURRENT: 435/325; 424/93.21 ; 435/320.1 ; 435/455

APPL-NO: 08/ 929940

DATE FILED: September 15, 1997

PARENT-CASE:

This application is a continuation of U.S. application Ser. No. 08/716,443, filed Sep. 16, 1996, (now abandoned), which is a U.S. application based under 35 U.S.C. 371 on PCT/US95/03940, filed Mar. 31, 1995 (abandoned) which is a continuation-in-part of application Ser. No. 08/228,933, filed Apr. 13, 1994 now abandoned.

US-PAT-NO: 6399758

DOCUMENT-IDENTIFIER: US 6399758 B1

TITLE: Nucleic acids for reducing carbohydrate epitopes

DATE-ISSUED: June 4, 2002

US-CL-CURRENT: 536/23.2; 424/93.2 ; 424/93.21 ; 435/455 ; 435/69.1 ; 435/70.1

APPL-NO: 09/ 254077

DATE FILED: June 11, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
AU	PO 1823	August 23, 1996

PCT-DATA:

APPL-NO: PCT/AU97/00540

DATE-FILED: August 22, 1997

PUB-NO: WO98/07837

PUB-DATE: Feb 26, 1998

371-DATE: Jun 11, 1999

102(E)-DATE: Jun 11, 1999

US-PAT-NO: 6361985

DOCUMENT-IDENTIFIER: US 6361985 B1

TITLE: Beta-1,3-galactosyltransferase homolog, ZNSSP6

DATE-ISSUED: March 26, 2002

US-CL-CURRENT: 435/193; 435/183 ; 435/253.3 ; 435/254.11 ; 435/320.1 ; 435/325
; 435/419 ; 536/23.1 ; 536/23.2

APPL-NO: 09/ 482180

DATE FILED: January 12, 2000

PARENT-CASE:

REFERENCE TO RELATED APPLICATIONS This application is related to Provisional
Application 60/115,721 filed on Jan. 12, 1999. Under 35 U.S.C. .sctn.
119(e)(1), this application claims benefit of said Provisional Application.

US-PAT-NO: 6361775

DOCUMENT-IDENTIFIER: US 6361775 B1

TITLE: Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes

DATE-ISSUED: March 26, 2002

US-CL-CURRENT: 424/184.1; 424/155.1 ; 424/156.1 ; 424/218.1 ; 424/277.1 ; 424/278.1 ; 424/816 ; 530/387.1

APPL-NO: 09/ 173270

DATE FILED: October 15, 1998

PARENT-CASE:

This is a divisional of application Ser. No. 08/704,548, filed Sep. 11, 1996, now U.S. Pat. No. 5,879,675 which is a continuation-in-part of application Ser. No. 08/213,200 filed Mar. 15, 1994, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
US	PCT/US95/03156	March 13, 1995

US-PAT-NO: 6344203

DOCUMENT-IDENTIFIER: US 6344203 B1

TITLE: Mimicking peptides in cancer therapy

DATE-ISSUED: February 5, 2002

US-CL-CURRENT: 424/277.1; 424/184.1 ; 424/185.1 ; 514/12

APPL-NO: 09/ 043731

DATE FILED: June 23, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
AU	PN5680	September 27, 1995

PCT-DATA:

APPL-NO: PCT/AU96/00617

DATE-FILED: September 27, 1996

PUB-NO: WO97/11715

PUB-DATE: Apr 3, 1997

371-DATE: Jun 23, 1998

102(E)-DATE: Jun 23, 1998

US-PAT-NO: 6331658

DOCUMENT-IDENTIFIER: US 6331658 B1

TITLE: Genetically engineered mammals for use as organ donors

DATE-ISSUED: December 18, 2001

US-CL-CURRENT: 800/14; 435/320.1 ; 435/325 ; 435/455 ; 435/69.1 ; 800/17
; 800/21 ; 800/22 ; 800/25 ; 800/3 ; 800/8 ; 800/9

APPL-NO: 08/ 379040

DATE FILED: January 27, 1995

PARENT-CASE:

This is a continuation of application Ser. No. 08/049,817 filed on Apr. 20, 1993 now abandoned.

US-PAT-NO: 6331396

DOCUMENT-IDENTIFIER: US 6331396 B1

TITLE: Arrays for identifying agents which mimic or inhibit the activity of interferons

DATE-ISSUED: December 18, 2001

US-CL-CURRENT: 435/6; 435/287.2 ; 536/23.1 ; 536/23.52 ; 536/24.3 ; 536/24.31

APPL-NO: 09/ 405438

DATE FILED: September 23, 1999

PARENT-CASE:

This application claims the benefit of U.S. Provisional No. 60/101,497, filed Sep. 23, 1998.

US-PAT-NO: 6284493

DOCUMENT-IDENTIFIER: US 6284493 B1

TITLE: Method of synthesizing saccharide compositions

DATE-ISSUED: September 4, 2001

US-CL-CURRENT: 435/72; 435/193 ; 435/252.33 ; 536/23.2

APPL-NO: 09/ 265067

DATE FILED: March 9, 1999

PARENT-CASE:

This application is a continuation application of application Ser. No. 08/664,882 filed Jun. 17, 1996, U.S. Pat. No. 5,879,912, which is a continuation of application Ser. No. 08/091,372 filed Jul. 15, 1993 now abandoned, each of which is incorporated by reference herein in its entirety.

US-PAT-NO: 6284245

DOCUMENT-IDENTIFIER: US 6284245 B1

TITLE: Neural retinal cells and retinal pigment epithelium cells and their use
in treatment of retinal disorders

DATE-ISSUED: September 4, 2001

US-CL-CURRENT: 424/93.7; 435/1.1

APPL-NO: 09/ 139812

DATE FILED: August 25, 1998

US-PAT-NO: 6268193

DOCUMENT-IDENTIFIER: US 6268193 B1

TITLE: Methods and products for the synthesis of oligosaccharide structures on glycoproteins, glycolipids, or as free molecules, and for the isolation of cloned genetic sequences that determine these structures

DATE-ISSUED: July 31, 2001

US-CL-CURRENT: 435/193; 435/252.3 ; 435/320.1 ; 435/325 ; 536/23.2

APPL-NO: 09/ 042531

DATE FILED: March 17, 1998

PARENT-CASE:

This application is a Division of application Ser. No. 08/696,731, filed on Aug. 14, 1996, now U.S. Pat. No. 5,955,347, which is a Division of application Ser. No. 08/393,246, filed on Feb. 23, 1995, now U.S. Pat. No. 5,595,900, which is a Continuation of application Ser. No. 08/220,433 filed Mar. 30, 1994, abandoned, which is a Division of Application Ser. No. 07/914,281, filed Jul. 20, 1992, now U.S. Pat. No. 5,324,663, which is a Continuation-in-Part of application Ser. No. 07/715,900, filed Jun. 19, 1991, abandoned, which is a Continuation-in-Part of application Ser. No. 07/627,621, filed Dec. 12, 1990, abandoned, which is a Continuation-in-Part of application Ser. No. 07/479,858, filed Feb. 14, 1990, abandoned.

US-PAT-NO: 6265557

DOCUMENT-IDENTIFIER: US 6265557 B1

TITLE: ABO histo-blood group O alleles of the baboon

DATE-ISSUED: July 24, 2001

US-CL-CURRENT: 536/23.1; 435/320.1 ; 536/23.2 ; 536/23.5

APPL-NO: 08/ 853774

DATE FILED: May 9, 1997

US-PAT-NO: 6251599

DOCUMENT-IDENTIFIER: US 6251599 B1

TITLE: Stabilized nucleic acid compositions and methods of preparation and use thereof

DATE-ISSUED: June 26, 2001

US-CL-CURRENT: 435/6; 514/44 ; 536/23.1 ; 536/23.4 ; 536/23.5 ; 536/24.5

APPL-NO: 09/ 187727

DATE FILED: November 6, 1998

US-PAT-NO: 6231608

DOCUMENT-IDENTIFIER: US 6231608 B1

TITLE: Aldehyde and glycosidase-treated soft and bone tissue xenografts

DATE-ISSUED: May 15, 2001

US-CL-CURRENT: 623/16.11

APPL-NO: 09/ 248476

DATE FILED: February 11, 1999

PARENT-CASE:

RELATED APPLICATIONS This application is a continuation in part of U.S. Ser. No. 09/036,171, filed Mar. 6, 1998, now U.S. Pat. No. 5,984,858, which is a continuation in part of application U.S. Ser. No. 08/483,256, filed Jun. 7, 1995, now U.S. Pat. No. 5,865,849.

US-PAT-NO: 6211429

DOCUMENT-IDENTIFIER: US 6211429 B1

TITLE: Complete oocyte activation using an oocyte-modifying agent and a reducing agent

DATE-ISSUED: April 3, 2001

US-CL-CURRENT: 800/24; 435/325 ; 435/375

APPL-NO: 09/ 100167

DATE FILED: June 18, 1998

PARENT-CASE:

This application claims the benefit of priority of U.S. Provisional Application Serial No. 60/050,046, filed Jun. 18, 1997.

US-PAT-NO: 6210440

DOCUMENT-IDENTIFIER: US 6210440 B1

TITLE: Anterior cruciate ligament xenografts

DATE-ISSUED: April 3, 2001

US-CL-CURRENT: 623/13.11; 623/13.17 ; 623/901

APPL-NO: 09/ 036087

DATE FILED: March 6, 1998

PARENT-CASE:

RELATED APPLICATION This application is a continuation-in-part of the copending U.S. Ser. No. 08/529,199, filed Dec. 1, 1997, which is a Continued Prosecution Application (CPA) of U.S. Ser. No. 08/529,199, filed Sep. 15, 1995.

US-PAT-NO: 6204029

DOCUMENT-IDENTIFIER: US 6204029 B1

TITLE: Glycosylated acceptor synthesis catalyzed by glycosyl transferase and nucleotide phosphate sugar-dependent enzyme

DATE-ISSUED: March 20, 2001

US-CL-CURRENT: 435/97; 435/100 ; 435/101 ; 435/174 ; 435/179 ; 435/193

APPL-NO: 09/ 057863

DATE FILED: April 9, 1998

PARENT-CASE:

This application is a Continuation-in-Part of U.S. patent application Ser. No. 08/835,941 filed Apr. 11, 1997, now U.S. Pat. No. 5,952,203.

US-PAT-NO: 6166288

DOCUMENT-IDENTIFIER: US 6166288 A

TITLE: Method of producing transgenic animals for xenotransplantation
expressing both an enzyme masking or reducing the level of the gal epitope and
a complement inhibitor

DATE-ISSUED: December 26, 2000

US-CL-CURRENT: 800/17; 800/21 ; 800/22 ; 800/25 ; 800/3

APPL-NO: 08/ 675773

DATE FILED: July 3, 1996

PARENT-CASE:

This application claims priority from provisional U.S. patent application Ser.
No. 60/004,461, filed Sep. 27, 1995.

US-PAT-NO: 6156547

DOCUMENT-IDENTIFIER: US 6156547 A

TITLE: Apparatus for the synthesis of saccharide compositions

DATE-ISSUED: December 5, 2000

US-CL-CURRENT: 435/97; 435/101 ; 435/84 ; 536/21

APPL-NO: 08/ 745840

DATE FILED: November 8, 1996

PARENT-CASE:

This is a Continuation, of application Ser. No. 08/215,727 filed on Mar. 22, 1994; now U.S. Pat. No. 5,583,042 which is a Continuation-in-Part of application Ser. No. 08/163,534, filed on Dec. 9, 1993, Abandoned; which is a Continuation of application Ser. No. 07/955,687, filed on Oct. 2, 1992, now U.S. Pat. No. 5,288,637, which is a Continuation of Ser. No. 07/683,810, filed on Apr. 11, 1991, now U.S. Pat. No. 5,180,674, which is a Continuation-in-Part of application Ser. No. 07/509,560, filed on Apr. 16, 1990, Abandoned.

US-PAT-NO: 6153428

DOCUMENT-IDENTIFIER: US 6153428 A

TITLE: .alpha.(1,3) galactosyltransferase negative porcine cells

DATE-ISSUED: November 28, 2000

US-CL-CURRENT: 435/325; 424/93.21 ; 435/320.1

APPL-NO: 08/ 621700

DATE FILED: March 26, 1996

PARENT-CASE:

This application is a continuation of application Ser. No. 08/228,933, filed Apr. 13, 1994 abandoned.

US-PAT-NO: 6136580

DOCUMENT-IDENTIFIER: US 6136580 A

TITLE: .beta.-1-6-N-acetylglucosaminyltransferase that forms core 2, core 4
and I branches

DATE-ISSUED: October 24, 2000

US-CL-CURRENT: 435/193; 435/6 ; 435/7.4 ; 435/97 ; 530/326 ; 530/327 ; 530/350
; 530/380 ; 536/23.2

APPL-NO: 09/ 233506

DATE FILED: January 19, 1999

US-PAT-NO: 6096512

DOCUMENT-IDENTIFIER: US 6096512 A

TITLE: Cloned DNA encoding a UDP-GalNAc: Polypeptide,
N-acetylgalactosaminyltransferase

DATE-ISSUED: August 1, 2000

US-CL-CURRENT: 435/68.1; 435/440 ; 435/455 ; 435/471 ; 435/476 ; 435/70.1
; 435/71.1 ; 435/71.2 ; 435/72 ; 435/74 ; 435/97

APPL-NO: 08/ 967506

DATE FILED: November 11, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a divisional of U.S. Ser. No. 08/602,830 filed Nov. 13, 1995, now abandoned, which is the national phase of international application PCT/US94/02552, filed Mar. 17, 1994 which is a continuation-in-part of U.S. Ser. No. 08/063,186 filed May 14, 1993, now abandoned.

US-PAT-NO: 6054312

DOCUMENT-IDENTIFIER: US 6054312 A

TITLE: Receptor-mediated gene delivery using bacteriophage vectors

DATE-ISSUED: April 25, 2000

US-CL-CURRENT: 435/320.1; 530/350 ; 530/387.1 ; 536/23.5 ; 536/23.72

APPL-NO: 08/ 920396

DATE FILED: August 29, 1997

US-PAT-NO: 6049025
DOCUMENT-IDENTIFIER: US 6049025 A

TITLE: Articular cartilage xenografts

DATE-ISSUED: April 11, 2000

US-CL-CURRENT: 128/898

APPL-NO: 09/ 036098

DATE FILED: March 6, 1998

PARENT-CASE:

RELATED APPLICATIONS This application is a continuation-in-part of application U.S. Ser. No. 08/779,280, filed Jan. 6, 1997, now U.S. Pat. No. 5,782,915, and a continuation of prior application U.S. Ser. No. 08/529,200, filed Sep. 15, 1995 and now abandoned.

US-PAT-NO: 6046379
DOCUMENT-IDENTIFIER: US 6046379 A

TITLE: Meniscal xenografts

DATE-ISSUED: April 4, 2000

US-CL-CURRENT: 623/14.12

APPL-NO: 09/ 036088

DATE FILED: March 6, 1998

PARENT-CASE:

RELATED APPLICATION This application is a continuation-in-part of application
U.S. Ser. No. 08/483,256, filed Jun. 7, 1995 now U.S. Pat. No. 5,865,849.

US-PAT-NO: 6015701

DOCUMENT-IDENTIFIER: US 6015701 A

TITLE: N-acetylglucosaminyltransferase V proteins and coding sequences

DATE-ISSUED: January 18, 2000

US-CL-CURRENT: 435/193; 435/252.3 ; 435/252.33 ; 435/320.1 ; 435/325 ; 536/23.2

APPL-NO: 08/ 276968

DATE FILED: July 19, 1994

PARENT-CASE:

This application is a continuation-in-part of U.S. Ser. No. 08/016,863, filed Feb. 10, 1993, now U.S. Pat. No. 5,602,003, which application is a continuation-in-part of U.S. Ser. No. 07/905,795, filed Jun. 29, 1992, now abandoned.

US-PAT-NO: 5955347

DOCUMENT-IDENTIFIER: US 5955347 A

TITLE: Methods and products for the synthesis of oligosaccharide structures on glycoproteins, glycolipids, or as free molecules, and for the isolation of cloned genetic sequences that determine these structures

DATE-ISSUED: September 21, 1999

US-CL-CURRENT: 435/252.3; 435/193 ; 435/320.1 ; 536/23.2

APPL-NO: 08/ 696731

DATE FILED: August 14, 1996

PARENT-CASE:

This is a Division of application Ser. No. 08/393,246 filed on Feb. 23, 1995, now U.S. Pat. No. 5,595,900, which is a Continuation of application Ser. No. 08/220,433, filed Mar. 30, 1994, abandoned, which is a Division of application Ser. No. 07/914,281, filed Jul. 20, 1992, now U.S. Pat. No. 5,324,663, which is a Continuation-in-Part of application Ser. No. 07/715,900, filed Jun. 19, 1991, abandoned, which is a Continuation-in-Part of application Ser. No. 07/627,621, filed Dec. 12, 1990, abandoned, which is a Continuation-in-Part of application Ser. No. 07/479,858, filed Feb. 14, 1990, abandoned.

US-PAT-NO: 5952203

DOCUMENT-IDENTIFIER: US 5952203 A

TITLE: Oligosaccharide synthesis using activated glycoside derivative,
glycosyl transferase and catalytic amount of nucleotide phosphate

DATE-ISSUED: September 14, 1999

US-CL-CURRENT: 435/97; 435/100 ; 435/101 ; 435/174 ; 435/179 ; 435/193

APPL-NO: 08/ 835941

DATE FILED: April 11, 1997

US-PAT-NO: 5919449

DOCUMENT-IDENTIFIER: US 5919449 A

TITLE: Porcine cardiomyocytes and their use in treatment of insufficient cardiac function

DATE-ISSUED: July 6, 1999

US-CL-CURRENT: 424/93.7; 424/569 ; 435/325

APPL-NO: 08/ 454989

DATE FILED: May 30, 1995

US-PAT-NO: 5910570

DOCUMENT-IDENTIFIER: US 5910570 A

TITLE: Cloned DNA encoding a UDP-GalNAc: polypeptide
N-acetylgalactosaminyl-transferase

DATE-ISSUED: June 8, 1999

US-CL-CURRENT: 530/328; 435/193

APPL-NO: 08/ 967508

DATE FILED: November 11, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a divisional of U.S. Ser. No. 08/602,830 filed Nov. 13, 1995 which is the national phase of international application PCT/US94/02552, which is a continuation-in-part of U.S. Ser. No. 08/063,186 filed May 14, 1993.

US-PAT-NO: 5879912

DOCUMENT-IDENTIFIER: US 5879912 A

TITLE: Method of synthesizing saccharide compositions

DATE-ISSUED: March 9, 1999

US-CL-CURRENT: 435/72; 435/193 ; 435/252.3 ; 435/252.33 ; 435/289.1 ; 435/320.1
; 435/74 ; 435/75 ; 435/84 ; 536/23.2

APPL-NO: 08/ 664882

DATE FILED: June 17, 1996

PARENT-CASE:

This is a continuation of application Ser. No. 08/091,372 filed Jul. 15, 1993, now abandoned.

US-PAT-NO: 5879675

DOCUMENT-IDENTIFIER: US 5879675 A

TITLE: Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes

DATE-ISSUED: March 9, 1999

US-CL-CURRENT: 424/93.1; 424/155.1 ; 424/156.1 ; 424/159.1 ; 424/184.1
; 424/218.1 ; 424/277.1 ; 424/278.1 ; 424/816

APPL-NO: 08/ 704548

DATE FILED: September 11, 1996

PARENT-CASE:

This is a continuation-in-part of application Ser. No. 08/213,200 filed Mar. 15, 1994, now abandoned.

PCT-DATA:

APPL-NO: PCT/US95/03156

DATE-FILED: March 13, 1995

PUB-NO: WO95/24924

PUB-DATE: Sep 21, 1995

371-DATE: Sep 11, 1996

102(E)-DATE: Sep 11, 1996

US-PAT-NO: 5871997

DOCUMENT-IDENTIFIER: US 5871997 A

TITLE: Methods and compositions for protecting retroviral vector particles and producer cells from inactivation by complement via reduction of the expression or recognition of galactose alpha (1,3) galactosyl epitopes

DATE-ISSUED: February 16, 1999

US-CL-CURRENT: 435/235.1; 435/238 ; 435/239 ; 435/325

APPL-NO: 08/ 399416

DATE FILED: March 6, 1995

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This is a continuation-in-part of U.S. Ser. No. 08/278,639, filed Jul. 27, 1994, now abandoned, in the names of Russell P. Rother, Scott A. Rollins, William L. Fodor, and Stephen P. Squinto, and entitled "Retroviral Transduction of Cells in the Presence of Complement."

US-PAT-NO: 5869035

DOCUMENT-IDENTIFIER: US 5869035 A

TITLE: Methods and compositions for inducing complement destruction of tissue

DATE-ISSUED: February 9, 1999

US-CL-CURRENT: 424/93.7; 424/277.1 ; 424/93.21 ; 435/320.1 ; 514/44

APPL-NO: 08/ 748344

DATE FILED: November 13, 1996

US-PAT-NO: 5849991

DOCUMENT-IDENTIFIER: US 5849991 A

TITLE: Mice homozygous for an inactivated .alpha. 1,3-galactosyl transferase gene

DATE-ISSUED: December 15, 1998

US-CL-CURRENT: 800/8; 435/320.1 ; 435/354 ; 435/463 ; 800/17 ; 800/18 ; 800/21 ; 800/22 ; 800/24

APPL-NO: 08/ 378617

DATE FILED: January 26, 1995

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS The present application is a continuation-in-part of U.S. application Ser. No. 08/188,607, filed Jan. 27, 1994, now abandoned.

US-PAT-NO: 5821117
DOCUMENT-IDENTIFIER: US 5821117 A

TITLE: Xenotransplantation therapies

DATE-ISSUED: October 13, 1998

US-CL-CURRENT: 435/320.1; 435/325 ; 536/23.2

APPL-NO: 08/ 214580

DATE FILED: March 15, 1994

FOREIGN-APPL-PRIORITY-DATA:		
COUNTRY	APPL-NO	APPL-DATE
AU	PL 7854	March 16, 1993

US-PAT-NO: 5807732

DOCUMENT-IDENTIFIER: US 5807732 A

TITLE: GDP-L-fucose: .beta.-D-galactoside 2-.alpha.-L-fucosyltransferases, DNA sequences encoding the same, method for producing the same and a method of genotyping a person

DATE-ISSUED: September 15, 1998

US-CL-CURRENT: 435/358; 435/193 ; 435/252.2 ; 435/252.3 ; 435/320.1 ; 435/325 ; 435/365 ; 435/69.1 ; 536/23.2

APPL-NO: 08/ 395800

DATE FILED: February 28, 1995

US-PAT-NO: 5770420

DOCUMENT-IDENTIFIER: US 5770420 A

TITLE: Methods and products for the synthesis of oligosaccharide structures on glycoproteins, glycolipids, or as free molecules, and for the isolation of cloned genetic sequences that determine these structures

DATE-ISSUED: June 23, 1998

US-CL-CURRENT: 435/193; 435/252.3 ; 435/320.1 ; 435/325 ; 536/23.2 ; 536/23.4

APPL-NO: 08/ 525058

DATE FILED: September 8, 1995

US-PAT-NO: 5691180

DOCUMENT-IDENTIFIER: US 5691180 A

TITLE: DNA sequence encoding N-acetyl-galactosamine-transferase

DATE-ISSUED: November 25, 1997

US-CL-CURRENT: 435/325; 435/355 ; 435/358 ; 435/4 ; 435/6 ; 435/7.1 ; 435/7.4
; 530/350 ; 536/23.1 ; 536/23.2 ; 536/23.4

APPL-NO: 08/ 255670

DATE FILED: June 9, 1994

US-PAT-NO: 5595900

DOCUMENT-IDENTIFIER: US 5595900 A

TITLE: Methods and products for the synthesis of oligosaccharide structures on glycoproteins, glycolipids, or as free molecules, and for the isolation of cloned genetic sequences that determine these structures

DATE-ISSUED: January 21, 1997

US-CL-CURRENT: 435/193; 435/320.1 ; 435/69.1 ; 536/23.2

APPL-NO: 08/ 393246

DATE FILED: February 23, 1995

PARENT-CASE:

This application is a continuation of application Ser. No. 08/220,433, filed Mar. 30, 1994, now abandoned, which is a division of Ser. No. 07/914,281, filed Jul. 20, 1992, now U.S. Pat. No. 5,324,663, which is a continuation-in-part of Ser. No. 07/715,900, filed on Jun. 19, 1991, now abandoned, which is a continuation-in-part of Ser No. 07/627,621, filed on Dec. 12, 1990, now abandoned, which is a continuation-in-part of Ser. No. 07/479,858, filed on Feb. 14, 1990, now abandoned.

US-PAT-NO: 5583042

DOCUMENT-IDENTIFIER: US 5583042 A

TITLE: Apparatus for the synthesis of saccharide compositions

DATE-ISSUED: December 10, 1996

US-CL-CURRENT: 435/283.1; 435/101 ; 435/193 ; 435/68.1 ; 435/814 ; 435/815
; 435/84 ; 435/97

APPL-NO: 08/ 215727

DATE FILED: March 22, 1994

PARENT-CASE:

RELATED APPLICATIONS This application is a Continuation-in-Part application of U.S. Ser. No. 08/163,534 filed on Dec. 9, 1993, now abandoned. which is a Continuation application of U.S. Ser. No. 07/955,687, filed on Oct. 2, 1992, now U.S. Pat. No. 5,288,637, which is a Continuation Application of U.S. Ser. No. 07/683,810, filed on Apr. 11, 1991, now U.S. Pat. No. 5,180,674, which is Continuation-in-Part application of U.S. Pat. No. Ser. No. 07/509,560, filed Apr. 16, 1990, now abandoned.

US-PAT-NO: 5324663

DOCUMENT-IDENTIFIER: US 5324663 A

TITLE: Methods and products for the synthesis of oligosaccharide structures on glycoproteins, glycolipids, or as free molecules, and for the isolation of cloned genetic sequences that determine these structures

DATE-ISSUED: June 28, 1994

US-CL-CURRENT: 435/320.1; 435/193 ; 435/69.1 ; 435/70.3 ; 536/23.2

APPL-NO: 07/ 914281

DATE FILED: July 20, 1992

PARENT-CASE:

BACKGROUND OF THE INVENTION This application is a continuation-in-part of U.S. Patent application Ser. No. 07/715,900, filed Jun. 19, 1991, now abandoned, which is a continuation-in-part of U.S. Patent application Ser. No. 07/627,621, filed Dec. 12, 1990, now abandoned, which was a continuation-in-part of U.S. Patent application Ser. No. 07/479,858, filed Feb. 14, 1990, now abandoned .